Fish Catch Data from Herschel Island, Yukon Territory, and other Offshore Sites in the Canadian Beaufort Sea, July and August 2007, aboard the CCGS *Nahidik*

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FISH CATCH DATA FROM HERSCHEL ISLAND, YUKON TERRITORY, AND OTHER OFFSHORE SITES IN THE CANADIAN BEAUFORT SEA, JULY AND AUGUST 2007, ABOARD THE CCGS *NAHIDIK*

by

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ABSTRACT

Majewski, A.R., M.K. Lowdon, J.D. Reist, and B.J. Park. 2011. Fish catch data from Herschel Island, Yukon Territory, and other offshore sites in the Canadian Beaufort Sea, July and August 2007, aboard the CCGS *Nahidik*. Can. Data Rep. Fish. Aquat. Sci. 1231: vi + 50 p.

Biological sampling was conducted along five transects, and six additional stations, within the Canadian Beaufort Sea between July 31st and August 12th, 2007, as part of the Northern Coastal Marine Studies program. Fishing was conducted using either a benthic trawl or gill nets. The objective of this study was to improve our understanding of the biology and ecology of offshore demersal fish populations in the Beaufort Sea and to contribute data to support hydro-acoustic surveys and an ongoing multibeam mapping program. One thousand two hundred and eighty four adult and late juvenile fish were collected using the benthic trawl, representing 18 species. Twelve fish representing an additional three species were captured via gill nets. Biological data (fork/total lengths, weight, sex, and maturity) were collected from all fish and tissue samples were taken for further analysis (i.e., genetic and contaminant studies, foodweb and energy transfer studies, aging, and gut content analysis). Biological data, capture locations, and basic information regarding gear deployment are provided herein.

Key Words: Beaufort Sea, Herschel Island, offshore, *Boreogadus saida*, *Anisarchus medius, Gymnocanthus tricuspis*, benthic trawl, water chemistry, CCGS *Nahidik,* Northern Coastal Marine Studies.

RÉSUMÉ

Majewski, A.R., M.K. Lowdon, J.D. Reist, and B.J. Park. 2011. Fish catch data from Herschel Island, Yukon Territory, and other offshore sites in the Canadian Beaufort Sea, July and August 2007, aboard the CCGS *Nahidik*. Can. Data Rep. Fish. Aquat. Sci. 1231: vi + 50 p.

Des échantillonnages biologiques ont été réalisés le long de cinq transects ainsi que dans six autres sites, dans la partie canadienne de la mer de Beaufort, du 31 juillet au 12 août 2007, dans le cadre d'un programme d'études des eaux marines côtières du Nord. Les captures ont été effectuées au chalut de fond ou à l'aide de filets maillants. Cette étude visait à mieux comprendre la biologie et l'écologie des populations hauturières de poissons de fond de la mer de Beaufort et à fournir des données permettant d'étayer des relevés hydroacoustiques et un programme continu de cartographie multifaisceaux. On a capturé 1 284 individus adultes et au dernier stade juvénile représentant 18 espèces, à l'aide du chalut de fond. Douze individus représentant trois autres espèces ont été capturés dans les filets maillants. Des données biologiques (longueur à la fourche et longueur totale, poids, sexe et maturité) ont été recueillies pour tous les poissons, et des échantillons de tissu ont été prélevés aux fins d'autres analyses (c.-à-d., génétique et contaminants, réseau trophique et transfert d'énergie, détermination de l'âge, contenu du tube digestif). Les données biologiques, les sites de capture et les renseignements de base concernant les engins utilisés sont présentés dans ce rapport.

Mots clés : mer de Beaufort, île Herschel, haute mer, *Boreogadus saida*, *Anisarchus medius, Gymnocanthus tricuspis*, chalut de fond, chimie de l'eau, NGCC *Nahidik,* programme d'études des eaux marines côtières du Nord.

INTRODUCTION

The proposed Mackenzie Valley Pipeline Project has sparked a renewal in intensive oil and gas exploration in the Mackenzie Delta and nearshore regions of the Beaufort Sea. In response to the oil and gas industry's focus in the region, governmental regulators and resource managers are tasked with the assessment of potential impacts of anthropogenic activities on the region's natural environment, including fish and fish habitat. Despite considerable research in the late 1970s and early 1980s on the biological and physical makeup of the Mackenzie Delta and nearshore Beaufort Sea, the complex dynamics of those areas and their biota are still poorly understood. Although several studies have examined fish populations within Tuktoyaktuk Harbour, Kugmallit Bay and nearshore sites throughout Mackenzie Bay, few studies have focused on offshore pelagic and benthic fish populations (Chiperzak et al. 2003; Frost and Lowry 1983; Galbraith and Hunter 1975; Kavik-Axys Inc. and LGL Limited Environmental Research Associates 2001; Majewski et al. 2006; Majewski et al. 2009a,b). As such, relatively little is known about the species composition, habitat preferences, and general ecology of offshore fish populations in the Beaufort Sea.

The data presented in this report were collected as part of the Northern Coastal Marine Studies (NCMS) program, which is a multidisciplinary study aimed at characterizing the physical and biological nature of the Canadian Shelf through a multi-year habitat mapping program. In the context of this study, habitat mapping is the process of identifying, characterizing, and mapping the physical, ecological, and human variables that influence the abundance and distribution of species in this area. The fundamental objective of this program is to conduct research that supports regulatory decision making regarding the protection of fish and fish habitat. The integration of sea-bed mapping with physical and biological sampling is intended to provide a comprehensive overview of the status and composition of the coastal Beaufort Sea ecosystem. The central objective of the fishing component of this program is to provide data regarding the presence and distribution of fish in support of an on-going multibeam mapping program of the Beaufort Sea floor, and to contribute to the general biological and ecological information on offshore pelagic and benthic fish populations. Samples collected during this survey also contributed to an ongoing study of the trophic structure of Beaufort Sea fish populations, as well as ongoing genetic (stock structure and variability) and contaminant studies of fishes in this area.

This report presents fish catch data including species caught with corresponding biological data, timing, location, depth, and gear type. Water chemistry parameters are presented for all stations where data were collected. Other follow-on analyses that were conducted are generally outlined herein, but those data are not presented. Catch data and basic biological data from fish captured during the 2004, 2005 and 2006 NCMS programs are summarized in Majewski et al. 2006 and Majewski et al. 2009a,b.

MATERIALS AND METHODS

STUDY AREA

This study took place in the Canadian Beaufort Sea. In 2007, fishing efforts were conducted at 32 sampling stations between July 31st and August 12th. Twenty-six trawl deployments were conducted along five transects southeast of Herschel Island, Yukon Territory (YT). The Herschel Island survey included a nearshore transect along the Yukon North Slope, a transect within Herschel Basin, one transect on the crest of Herschel Sill, and two transects extending into the Mackenzie Trough (Figure 2).

Four additional trawling stations were sampled northwest of Herschel Island between 36 and 61 m depth (Figures 1and 3), and one additional station was sampled at Cape Bathurst (Figures 1 and 4). These additional stations were defined as 2 x 2 nm quadrats. Gill nets were set at one location along the northwest shoreline of Herschel Island (Figures 1 and 2).

FISHING EQUIPMENT AND DEPLOYMENT

The main research platform of the NCMS program in 2007 was the Canadian Coast Guard Ship (CCGS) *Nahidik*. The CCGS *Nahidik* is a 53.35 m shallow draft river vessel which has been retrofitted for scientific research. Fishing was conducted using either a benthic beam trawl or multi-mesh gill nets. The benthic trawl was deployed from the main deck of the CCGS *Nahidik* using the hydraulic boom (8.93 m) and winch (lifting capacity = 2273 kg). The gill nets were deployed using a 4.9 m Hurricane Fast-Rescue-Craft (FRC).

Benthic Trawl

The headline of the beam trawl measured 4.27 m with five 20.32 cm diameter floats spaced along its length. The footrope measured 4.27 m and consisted of 0.95 cm chain holding a series of 10.16 cm diameter rubber discs (rock hoppers) that spanned its entire length. The 320 cm beam was constructed of 7.62 cm outside diameter aluminum pipe, with a 91 cm length of 7.30 cm outside diameter pipe centered, and attached vertically at each end. A chain clump weighing 13.61 kg was attached at both ends of the footrope to help maintain bottom contact. The net body and cod-end were constructed of 3.17 cm stretched, #18 nylon mesh. The bottom of the main net body was protected from abrasion by a panel of 0.95 cm knotless nylon mesh. The trawl's cod-end was lined on the outside with 0.63 cm square nylon mesh to protect it from damage due to contact with the sea bed and also to capture small specimens that slip through the main cod-end. The cod-end liner was sized larger than the main cod-end, creating a space buffer between its contents and those of the main cod-end, thus protecting specimens in the liner from being crushed by the heavier contents of the main cod-end. Schematic diagrams of the benthic trawl are presented in Majewski et al. 2009b. A simulation of the beam trawl at operational towing speed yielded an estimate horizontal opening of 2.8 m, and a vertical net height of 1.3 m. This estimate of vertical height is considerably lower than the estimated 2-3 m reported in Majewski et al. 2009b without the aid of computer simulation.

The benthic trawl was successfully deployed at four stations northwest of Herschel Island, one station along the west slope of Cape Bathurst, and 26 stations along five transects within the Herschel Island basin. Bottom contact was not achieved at two station along the Herschel Island transects (1088 and 1103; Table 1, Figure 2). Along the Herschel Island transects, total soak time per station equaled 20 min. At all other stations the benthic trawl was deployed for three 20-min tows for a total soak time of 60 min per station. The tow durations were limited to 20 min in order to avoid excessive stress on the trawl and towing equipment due to the potential accumulation of large amounts of sediments and rock. This also allowed us to monitor the trawling gear and, when necessary, make adjustments to the gear between tows. By limiting the length of trawl tows, we also were able to minimize damage to the catch from turbulence and crushing in the cod-end. Trawling speeds were typically maintained at approximately 1.03 m/s (Appendix C). The benthic trawl was deployed at depths ranging between 11 m and 128 m (Appendix C). Start and finish coordinates for benthic trawl deployments were recorded using the CCGS *Nahidik*'s on-board GPS system (Magnavox MX-200). Bottom and set depths, deployment and retrieval times, towing speed, distance covered, and area swept during each deployment are presented in Appendix B.

Gill Nets

Two multi-mesh gill nets where set on August 12th for 17 and 19 min, respectively along the northwest shore of Herschel Island (Figures 1 and 2). The multi-mesh gill nets consisted of six panels with mesh sizes of 2.54, 3.81, 6.35, 8.89, 11.43 and 13.97 cm stretched. The gill nets were set perpendicular to the shore in depths ranging from 1.0 to 2.0 m.

FISH PROCESSING

Field Processing

All fish were sorted and processed aboard the CCGS *Nahidik*. Trawl catches were transferred from the cod-end of the trawl net into 100 L coolers containing sea water. Benthic trawl catches were washed and sorted using 69 cm x 49 cm stainless steel wash frames with 2360 µm (U.S. Std. #8) stainless steel mesh bottoms. Field processing included preliminary species identification, measurement of fork length (FL) and/or total length (TL) to the nearest millimeter (mm), measurement of total weight to the nearest 0.5 g when possible, and digital photographs of representative specimens for each species. Due to difficulty in obtaining accurate weight measurements using electronic balances aboard the ship, especially for small specimens, field weight measurements are not presented in this report. All fish were frozen whole and transported to the Freshwater Institute in Winnipeg, MB, for additional biological processing.

Lab Processing

Lab processing was conducted at the Freshwater Institute in Winnipeg, MB. All fish were keyed to species using *Fishes of Alaska* (Mecklenberg et al. 2002) and *The Freshwater Fishes of Western Canada and Alaska* (McPhail and Lindsay 1970). The scientific names, common names, and assigned species codes are presented in Appendix

A. All fish were weighed to the nearest 0.1 g. Otoliths were removed from each fish, using standard dissection techniques, and archived for future age-structure analysis. Sex was determined by visual inspection of the gonads, using a dissection microscope to examine gonad tissue from immature fish. Fully intact gonads were weighed to the nearest 0.001 g in order to calculate a Gonado-Somatic Index (GSI) value for each fish. The following equation was used to calculate GSI:

GSI = (100 x Gonad Weight) / Round Weight

Additionally, a Maturity Quality Code (MQC, Table 2) (McGowan 1987) was assigned to each fish based on the relative state of development of their gonads. Digital photographs were taken where abnormal gonads were found and also from a sub-set of representative specimens to record criteria for assignment of a MQC.

Epaxial muscle tissue ($\geq$0.5 cm^3) was taken for stable isotope analysis (carbon, nitrogen, and sulphur) from a sub-sample of Arctic Cod (*Boreogadus saida*), n = 26; Arctic Alligatorfish (*Ulicina olrikii*), n = 223; Arctic Staghorn Sculpin (*Gymnocanthus tricuspis*), n = 22; Ribbed Sculpin (*Triglops pingelii*), n = 9; Hamecon (*Artediellus scaber*), n = 8; Polar Eelpout (*Lycodes polaris*), n = 25; Spatulate Sculpin (*Icelus spatula*), n = 18; Gelatinous Seasnail (*Liparis fabricii*), n = 19; Twohorn Sculpin (*Icelus bicornis*), n = 5; Halfbarred Pout (*Gymnelus hemifasciatus*), n = 12; Stout Eelblenny (*Anisarchus medius*), n = 8; Kelp Snailfish (*Liparis tunicatus*), n = 7; Threespot Eelpout (*Lycodes rossi*), n = 3; Arctic Eelpout (*Lycodes reticulates*), n = 1; Pale Eelpout (*Lycodes pallidus*), n = 1; Shorthorn Sculpin (*Myoxocephalus scorpius*), n = 1; and Fourhorn Sculpin (*Myoxocephalus quadricornis*), n = 1, as part of an on-going study of the trophic structure of fish in the Beaufort Sea. Muscle samples were taken from below the dorsal fin on the left side of the fish and placed in aluminum sample trays. All non-muscular tissue was removed prior to placing the samples in a drying oven for a minimum of 24 hours at 50°C.

A second piece of muscle tissue was taken from a sub-sample of Arctic Cod (n = 30) for analysis of contaminants including total mercury, methyl-mercury, organo-chlorides, and fatty acid content. Stable isotope analysis was also conducted on these muscle samples. Epaxial muscle tissue was removed posterior to the dorsal fin on the left side of each fish using standard dissection techniques. All non-muscular tissue was removed prior to placing the samples in labeled plastic bags and freezing.

CTD LOGGERS

A Star-Oddi Mini Conductivity, Temperature, Depth (CTD) logger was activated and affixed behind the head-rope of the trawl prior to each deployment. Data were logged at 1 sec intervals for the duration of each tow.

RESULTS

A total of 1284 adult and juvenile fish representing 21 species were captured from 32 stations in the Canadian Beaufort Sea (Figures 1, 2, and 3; Appendix C). Total catches were as follows:

1) *Benthic Trawl*: Arctic Alligatorfish, n = 223; Arctic Staghorn Sculpin, n = 219; Ribbed Sculpin, n = 104; Arctic Cod, n = 100; Hamecon, n = 84; Polar Eelpout, n = 62; Spatulate Sculpin, n = 42; Gelatinous Seasnail, n = 34; Twohorn Sculpin, n = 5; Halfbarred Pout, n = 26; Fish Doctor (*Gymnelus viridis*), n = 1; Stout Eelblenny, n = 8; Kelp Snailfish, n = 7; Threespot Eelpout, n = 4; Arctic Eelpout, n = 1; Fourline Snakeblenny (*Eumesogrammus praecisus*), n = 1; Pale Eelpout, n = 1; and Shorthorn Sculpin, n = 1. A total of 314 fish, unidentifiable to species, were also captured including: Stichaeidae, n = 273; Liparidae, n = 12; *Icelus* sp., n = 21; and *Lycodes* sp., n = 8. Benthic trawl deployment locations, depths and durations are presented in Appendix C. Basic biological data for fish captured in the benthic trawl are presented in Appendix D.

2) *Gill net*: Arctic Cisco (*Coregonus autumnalis*), n = 7; Least Cisco (*Coregonus sardinella*), n = 4; Fourhorn Sculpin, n = 1. Gill net deployment locations, depths and durations are presented in Appendix C. Basic biological data for fish captured in the gill nets are presented in Appendix C.

FISH CATCH OVERVIEW

Adult/Late Juvenile Fish

Arctic Alligatorfish: Arctic Alligatorfish comprised 17.45% of the total benthic trawl catch. This species was caught at eight of 31 trawling stations (Figures 6-8, Appendix C). Total lengths ranged from 27 to 66 mm, with a mean length of 48 mm (Appendix C). Arctic Alligatorfish were left intact for follow-on research and, therefore, information on sex and maturity are not presented here.

Arctic Staghorn Sculpin: Arctic Staghorn Sculpin comprised 17.14% of the total benthic trawl catch. Arctic Staghorn Sculpins were captured at 16 of 31 trawling stations (Figures 5-8, Appendix C). Total lengths ranged between 19 and 96 mm, with a mean length of 58 mm (Appendix C). The catch was composed of 47.5% males, 44.3% females, and 8.2% unknown sex Of the male specimens, 63 had MQC values of six and 32 had MQC values of seven. All females had MQC values of one. GSI values are provided in Appendix D. These MQC values indicate that the majority of these Arctic Staghorn Sculpins were sexually immature.

Ribbed Sculpin: Ribbed Sculpins comprised 8.14% of the total benthic trawl catch and were captured at eight of 31 trawling stations (Figures 5-8, Appendix C). Total lengths ranged from 40 to 121 mm, with a mean length of 81 mm (Appendix C). GSI values are presented in Appendix C. Fifteen specimens could not be sexed. Of the specimens that could be sexed, 35 (33.7%) were males and 54 (51.9%) were females. Of the male

specimens, 15 had MQC values of six and 20 had MQC values of seven. One female had an MQC value of three, 20 had MQC values of two, and 33 had MQC values of one. These values indicate a mix of sexually mature and immature specimens, with one female specimen being in ripe condition at the time of capture (Appendix C).

Arctic Cod: Arctic Cod comprised 7.82% of the total benthic trawl catch. This species was captured at 21 of 31 trawling stations (Figures 5-8, Appendix C). Fork lengths ranged between 28 and 139 mm, with a mean fork length of 74 mm (Appendix C). The catch was composed of 31.0% males, 13.0% females, and 56.0% unidentifiable to sex. Of the male specimens, 25 had MQC values of six and eight had MQC values of seven. All females had MQC values of one. GSI values are provided in Appendix C. All Arctic cod were sexually immature (Appendix C).

Hamecon: Hamecon comprised 5.01% of the total benthic trawl catch and were captured at nine of 31 trawling stations (Figures 5-8, Appendix C). The specimens ranged from 21 to 81 mm total length, with an average length of 56 mm (Appendix C). GSI values, where available, are presented in Appendix C. Twelve Hamecon specimens could not be sexed. Of the 73 Hamecon that could be sexed, 22 (25.9%) were males and 51 (60.0%) were females. Of the male specimens, one had an MQC value of six and 20 had MQC values of seven. One female had an MQC value of three, 38 had MQC values of two, eight had MQC values of one, two had MQC values of 4/5, and one had an MQC value of five. These values indicate a mix of sexually mature and immature specimens, with one female specimen being in ripe condition at the time of capture (Appendix C).

Polar Eelpout: Polar Eelpout comprised 4.85% of the total benthic trawl catch and were captured at 12 of 31 trawling stations (Figures 5-8, Appendix C). Total lengths ranged from 15 to 245 mm, with a mean length of 78 mm (Appendix C). Aside from tissue removal for genetics and stable isotope analysis, these specimens were kept intact for follow-on research. Therefore, GSI, sex, and MQC were not determined.

Spatulate Sculpin: Spatulate Sculpins comprised 3.29% of the total benthic trawl catch and were captured at eight of 31 trawling stations (Figures 5-8, Appendix C). The specimens ranged from 42 to 76 mm total length, with a mean length of 54 mm (Appendix C). GSI values, where available, are presented in Appendix C. Two specimens could not be sexed due to early life stage. Of the specimens that could be sexed, 19 (45.2%) were male, and 21 (50.0%) were female. Nineteen females had MQC values of one and two had MQC values of two. Twelve of the 19 males had MQC values of six and seven and MQC values of seven. These MQC values indicate that the majority of these fish were sexually immature at the time of capture (Appendix C).

Gelatinous Seasnail: Gelatinous Seasnail comprised 2.66% of the total benthic trawl catch. This species was captured at 12 of 31 trawling stations (Figures 5-8, Appendix C). Fork lengths ranged between 21 and 110 mm, with a mean total length of 65 mm (Appendix C). The catch was composed of 61.0% males, 28.0% females, and 11.0% unidentifiable to sex. Of the male specimens, four had MQC values of six and seven had

MQC values of seven. 80.0% of females had MQC values of one. 20.0% of females had MQC values of one. GSI values, where available, are provided in Appendix C.

Twohorn Sculpin: Twohorn Sculpins comprised 2.19% of the total benthic trawl catch and were captured at 12 of 31 trawling stations (Figures 5-8, Appendix C). Total lengths ranged from 28 to 62 mm, with a mean length of 47 mm. (Appendix C). GSI values, where available, are presented in Appendix C. Only 57.0% of the Twohorn Sculpins could be sexed. Of these specimens, six were males and ten were female. Five of the males had MQC values of seven and one had an MQC value of six. All females had MQC values of one. All other Twohorn Sculpins had MQC values of zero, indicating that all of these specimens were sexually immature at the time of capture (Appendix C).

Halfbarred Pout: Halfbarred Pout comprised 2.03% of the total benthic trawl catch. Halfbarred Pout were caught at six of 31 trawling stations (Figures 5-8, Appendix C). Total lengths ranged from 32 to 142 mm, with a mean length of 84 mm (Appendix C). Halfbarred Pout were left intact for follow-on research and, therefore, information on sex and maturity are not presented here.

Fish Doctor: Fish Doctor comprised 1.02% of the total benthic trawl catch and were captured at seven of 31 trawling stations (Figures 5-8, Appendix C). Total lengths ranged from 48 to 116 mm, with a mean length of 87 mm (Appendix C). Aside from tissue removal for genetics, these specimens were kept intact for follow-on research. Therefore, GSI, sex, and MQC were not determined.

Stout Eelblenny: Stout Eelblenny comprised 0.63% of the total benthic trawl catch and were captured at six of 31 trawling stations (Figures 5-8, Appendix C). The specimens ranged from 49 to 73 mm total length, with an average length of 60 mm (Appendix C). These specimens were kept intact for follow-on research. Therefore, GSI, sex, and MQC were not determined.

Arctic Cisco: Arctic Cisco comprised 58.3% of the total gill net catch at the single station sampled (Figure 8, Appendix C). Fork lengths ranged between 345 and 356 mm, with a mean length of 355 mm (Appendix C).

Kelp Snailfish: Kelp Snailfish comprised 0.47% of the total benthic trawl catch and were captured at four of 31 trawling stations (Figures 5-8, Appendix C). Total lengths ranged from 49 to 89 mm, with a mean length of 71 mm. (Appendix C). GSI values, where available, are presented in Appendix C. Four of the specimens were male and three were female. Two of the males had MQC values of six while the other two had MQV values of seven. All females were immature with MQC values of 1 (Appendix C).

Least Cisco: Least Cisco comprised 33.3% of the total gill net catch at the single station sampled (Figure 8, Appendix C). Fork lengths ranged between 134 and 138 mm, with a mean length of 136 mm (Appendix C).

Threespot Eelpout: Four Threespot Eelpout comprised 0.23% of the total benthic trawl catch (Appendix C). The specimens ranged from 38 to 132 mm total length, with an average length of 97 mm (Appendix C). Aside from tissue removal for genetics, these specimens were kept intact for follow-on research. Therefore, GSI, sex, and MQC were not determined.

Arctic Eelpout: A single Arctic Eelpout comprised 0.08% of the total benthic trawl catch (Appendix C). The specimen measured 150 mm total length (Appendix C). Aside from tissue removal for genetics and stable isotope analysis, this specimen was kept intact for follow-on research. Therefore, GSI, sex, and MQC were not determined.

Fourhorn Sculpin: A single Fourhorn Sculpin comprised 8.3% of the total gill net catch (Appendix C). The specimen measured 139 mm total length (Appendix C). The specimen was a male with an MQC value of 7, indicating it was mature. GSI is presented in Appendix C.

Fourline Snakeblenny: A single Fourline Snakeblenny comprised 0.08% of the total benthic trawl catch (Appendix C). The specimen measured 106 mm total length (Appendix C). This specimen was kept intact for follow-on research. Therefore, GSI, sex, and MQC were not determined.

Pale Eelpout: A single Pale Eelpout comprised 0.08% of the total benthic trawl catch (Appendix C). The specimen measured 192 mm total length (Appendix C). Aside from tissue removal for genetics and stable isotope analysis, this specimen was kept intact for follow-on research. Therefore, GSI, sex, and MQC were not determined.

Shorthorn Sculpin: A single Shorthorn Sculpin comprised 0.08% of the total benthic trawl catch (Appendix C). The fish measured 113 mm total length (Appendix C). This specimen was a female with a MQV value of 1 (Appendix C). This specimen was kept intact for follow-on research. Therefore, GSI, sex, and MQC were not determined.

CTD LOGGERS

Along the Herschel Island transects, the benthic trawl was deployed at bottom depths ranging from 3.37 m (station 1097) to 79.64 m (station 1108). At all bottom depths, fish were captured in a true marine environment, with salinity values ranging between 20.9 PSU (station 1097) and 32.2 PSU (station 1103) (Fissel et al. 1987). Bottom temperature along the Herschel transects ranged from 11.1 (station 1108) to -1.67°C (station 1097). At four stations northwest of Herschel Island, the benthic trawl was deployed to bottom depths ranging from 26.6 and 58.1 m. Salinity values ranged from 29.5 to 32.1 PSU, indicating a true marine environment (Fissel et al. 1987). Bottom water temperatures at station 1113 ranged between -0.707 and -1.372°C.

Minimum, maximum, and mean CTD data for each trawl deployment are presented in Appendix D.

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Table 1. Site names, associated physical features, gear deployment identifications (ID), and locations of stations sampled during the 2007 CCGS *Nahidik* fishing program.

Station Name	Station Code	Associated Feature	Station Location (Center Point) Latitude	Station Location (Center Point) Longitude	Benthic Trawl Locations Deploy. ID	Benthic Trawl Locations Start Latitude	Benthic Trawl Locations Start Longitude	Benthic Trawl Locations End Latitude	Benthic Trawl Locations End Longitude	Gill Net Locations Deploy. ID	Gill Net Locations Start Latitude	Gill Net Locations Start Longitude
CB1.2					BT-07-01	70d41.76	128d50.39	70d42.40	128d50.39			
CB1.2	1086	Cape Bathurst	70d42.00	128d50.30	BT-07-02	70d41.39	128d50.51	70d42.05	128d50.21			
CB1.2					BT-07-03	70d41.35	128d50.70	70d41.99	128d50.30			
PBS-E-2	1087		69d36.90	138d34.00	BT-07-04	69d36.90	138d34.40	69d36.59	138d33.06			
PBS-E-4	1088	Herschel Island	69d36.00	138d30.00	BT-07-05	69d36.02	138d30.55	69d35.68	138d28.96			
PBS-E-6	1089	Transect -	69d35.10	138d26.00	BT-07-06	69d35.10	138d26.24	69d34.76	138d24.71			
PBS-E-8	1090	-Mackenzie	69d34.00	138d22.00	BT-07-07	69d34.22	138d22.20	69d33.96	138d20.89			
PBS-E-10	1091	Trough	69d33.00	138d18.00	BT-07-08	69d33.44	138d18.56	69d33.11	138d17.23			
PBS-C-2	1092		69d33.00	138d48.00	BT-07-09	69d33.60	138d48.15	69d33.17	138d46.93			
PBS-C-4	1093	Herschel Island	69d32.00	138d45.00	BT-07-10	69d32.22	138d45.36	69d31.59	138d44.52			
PBS-C-6	1094	Transect	69d30.50	138d42.00	BT-07-11	69d30.74	138d42.97	69d30.16	138d42.04			
PBS-C-8	1095	-Sill	69d29.00	138d40.00	BT-07-12	69d29.44	138d40.73	69d28.88	138d39.80			
PBS-C-10	1096		69d27.50	138d38.00	BT-07-13	69d27.99	138d38.23	69d27.41	138d37.24			
PBS-A-2	1097		69d30.00	139d00.00	BT-07-14	69d30.07	139d00.99	69d29.49	139d00.13			
PBS-A-4	1098	Herschel Island	69d28.50	138d59.00	BT-07-15	69d28.91	138d59.21	69d28.33	138d58.24			
PBS-A-6	1099	Transect	69d27.00	138d56.00	BT-07-16	69d27.53	138d56.94	69d26.87	138d55.98			
PBS-A-8	1100	-Nearshore	69d26.00	138d54.00	BT-07-17	69d26.10	138d54.42	69d25.63	138d53.71			
PBS-A-10	1101		69d24.00	138d52.00	BT-07-18	69d24.68	138d52.18	69d23.99	138d51.46			
PBS-B-13	1102		69d25.00	138d44.00	BT-07-19	69d25.08	138d44.75	69d24.46	138d43.95			
PBS-B-7	1103	Herschel Island	69d29.00	138d50.00	BT-07-20	69d29.22	138d50.36	69d28.89	138d49.63			
PBS-B-8	1104	Transect	69d28.50	138d49.00	BT-07-21	69d28.69	138d49.38	69d28.03	138d48.57			
PBS-B-5	1105	-Basin	69d30.50	138d52.00	BT-07-22	69d30.99	138d52.21	69d30.37	138d51.29			
PBS-B-3	1106		69d32.00	138d54.00	BT-07-23	69d32.47	138d54.08	69d31.82	138d53.25			
PBS-B-1	1107		69d34.00	138d56.00	BT-07-24	69d34.01	138d56.16	69d33.44	138d54.84			
PBS-D-2	1108		69d34.50	138d37.00	BT-07-25	69d34.57	138d37.14	69d34.12	138d35.85			
PBS-D-4	1109	Herschel Island	69d33.50	138d34.00	BT-07-26	69d33.66	138d34.93	69d33.15	138d33.62			
PBS-D-6	1110	Transect	69d32.00	138d32.00	BT-07-27	69d32.44	138d32.13	69d31.93	138d30.95			
PBS-D-8	1111	-Mackenzie	69d31.00	138d29.00	BT-07-28	69d31.25	138d29.41	69d30.70	138d28.14			
PBS-D-10	1112	Trough	69d29.50	138d26.00	BT-07-29	69d29.97	138d26.83	69d29.40	138d25.58			

Table 1. Continued…

Station Name	Station Code	Associated Feature	Station Location (Center Point) Latitude	Longitude	Benthic Trawl Locations Deploy. ID	Start Latitude	Start Longitude	End Latitude	End Longitude	Gill Net Locations Deploy. ID	Start Latitude	Start Longitude
H 3.3			69d42.00	139d10.00	BT-07-30	69d42.29	139d10.98	69d42.25	139d09.49			
H 3.3	1113	West Herschel	69d42.00	139d11.00	BT-07-31	69d42.27	139d11.38	69d42.21	139d09.84			
H 3.3		Island	69d42.00	139d09.00	BT-07-32	69d42.21	139d09.14	69d42.19	139d07.30			
H 3.5			69d45.00	138d58.00	BT-07-33	69d45.70	138d58.45	69d46.17	138d59.49			
H 3.5	1114	West Herschel	69d46.00	138d59.00	BT-07-34	69d46.22	138d59.57	69d46.73	139d00.66			
H 3.5		Island	69d46.00	139d00.00	BT-07-35	69d46.80	139d00.72	69d47.18	139d02.26			
H 7.3			69d59.00	139d55.00	BT-07-36	69d59.74	139d55.92	69d59.20	139d56.98			
H 7.3	1115	West Herschel	69d59.00	139d56.00	BT-07-37	69d59.22	139d56.59	69d58.59	139d56.82			
H 7.3		Island	69d58.00	139d56.00	BT-07-38	69d58.69	139d56.90	69d58.14	139d57.94			
H 7.1			69d53.00	140d05.00	BT-07-39	69d53.07	140d05.44	69d52.90	140d03.52			
H 7.1	1116	West Herschel	69d52.00	140d02.00	BT-07-40	69d52.83	140d02.25	69d52.73	140d00.29			
H 7.1		Island	69d52.00	140d00.00	BT-07-41	69d52.60	140d00.27	69d52.24	139d58.74			
HHS	1117	Herschel Island	69d42.00	139d10.00						GN-07-01	69d37.54	139d10.21
HHS		Northwest shore	69d42.00	139d11.00						GN-07-02	69d37.58	139d10.30

Table 2. Maturity Quality Code descriptors (McGowan 1987).

Maturity State	Female		Male	
	Code	Description	Code	Description
Immature	1	- Ovaries granular in texture - Hard and triangular in shape - Up to full length of body cavity - Membrane full - Eggs distinguishable	6	- Testes long and thin - Tubular and scalloped shape - Up to full body length - Putty-like firmness
Mature	2	- Current year spawner - Ovary fills body cavity - Eggs near full size but not loose - Eggs not expelled by pressure	7	- Current year spawner - Testes large and lobate - White to purplish color - Centers may be fluid - Milt not expelled by pressure
Ripe	3	- Ovaries fill body cavity - Eggs full size and transparent - Eggs expelled by slight pressure	8	- Testes full size - White and lobate - Milt expelled by slight pressure
Spent	4	- Spawning complete - Ovaries ruptured and flaccid - Developing oocytes visible - Some retained eggs	9	- Spawning complete - Testes flaccid with some milt - Blood vessels obvious - Testes violet-pink in color
Resting	5	- Ovary 40-50% of body cavity - Membrane thin, loose, and semi-transparent - Healed from spawning - Developing oocytes apparent with few atretic eggs - Some eggs may be retained in body cavity	10	- Testes tubular, less lobate - Healed from spawning - No fluid in center - Usually full length - Mottled and purplish in color
		Female or Male		
Unknown	0	- Cannot be sexed - Gonads long or short and thin - Transparent and translucent	11	- Resting fish - Spawning complete, gonads not regenerated - Sexing not possible

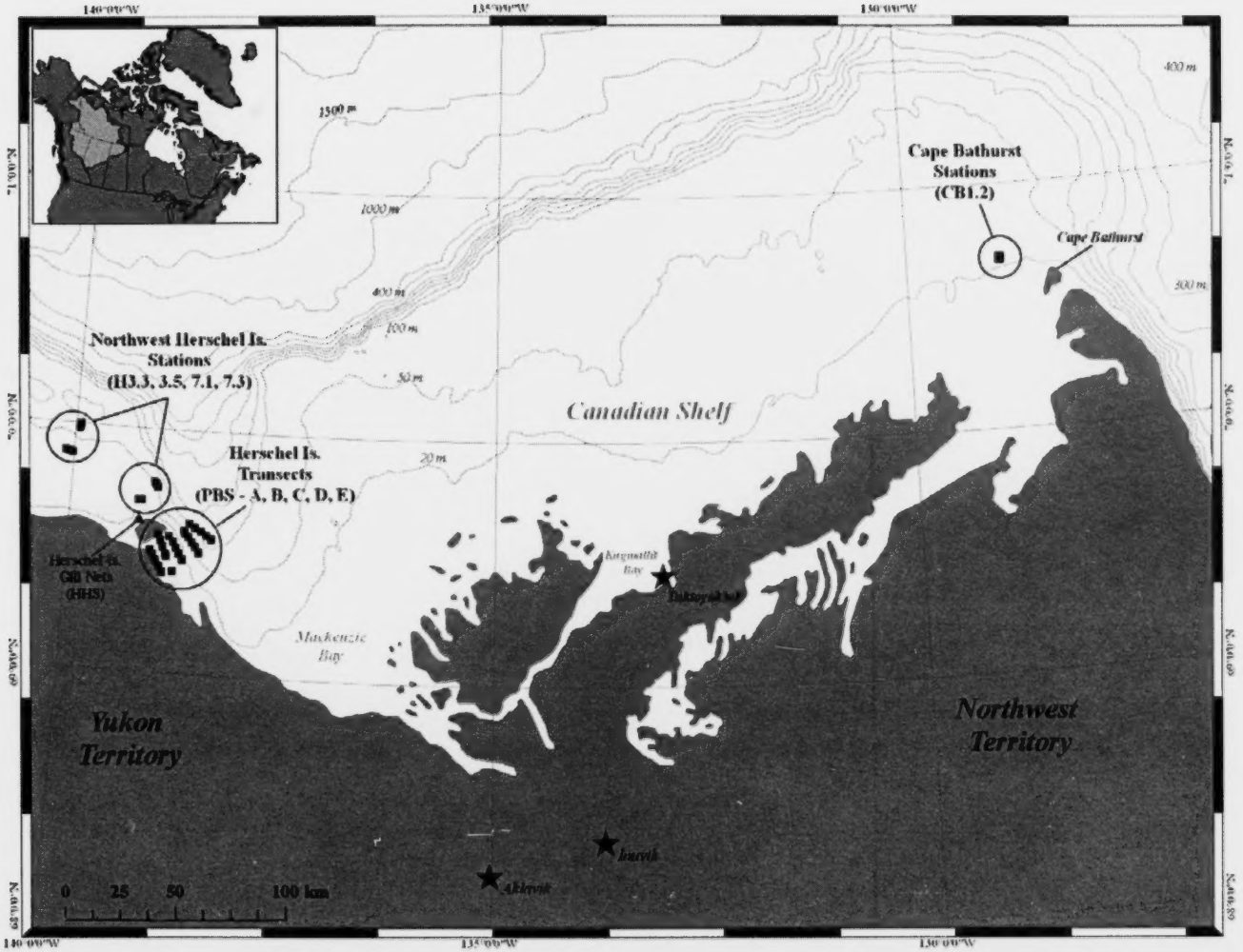

Figure 1. Locations of sampling sites as part of the CCGS *Nahidik* fishing program during July and August 2007.

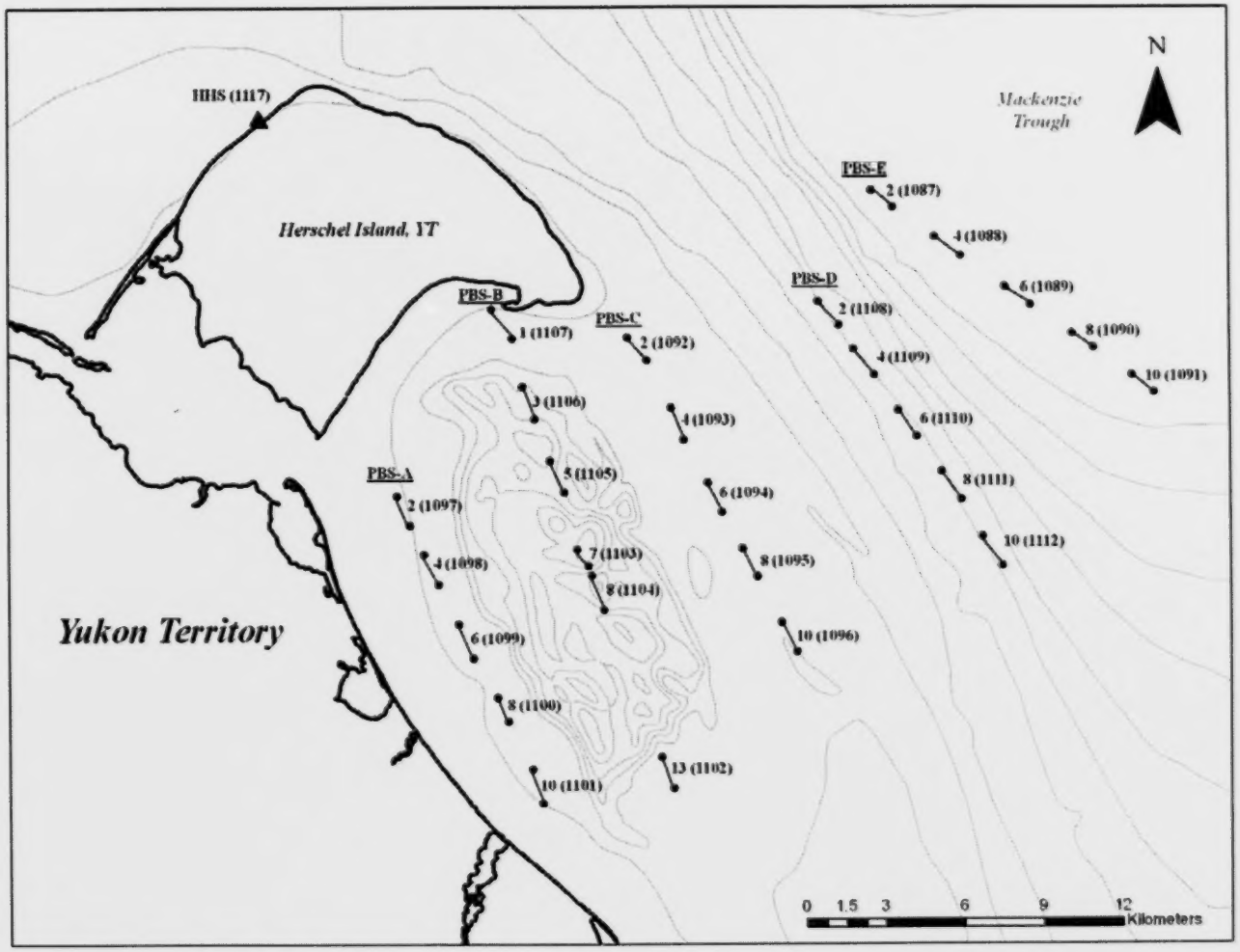

Figure 2. Transect and trawl deployment locations from CCGS *Nahidik* during August 2007 at Herschel Island, YT. Refer to Table 1 for deployment coordinates. Bathymetric contours represent 10 m depth increments.

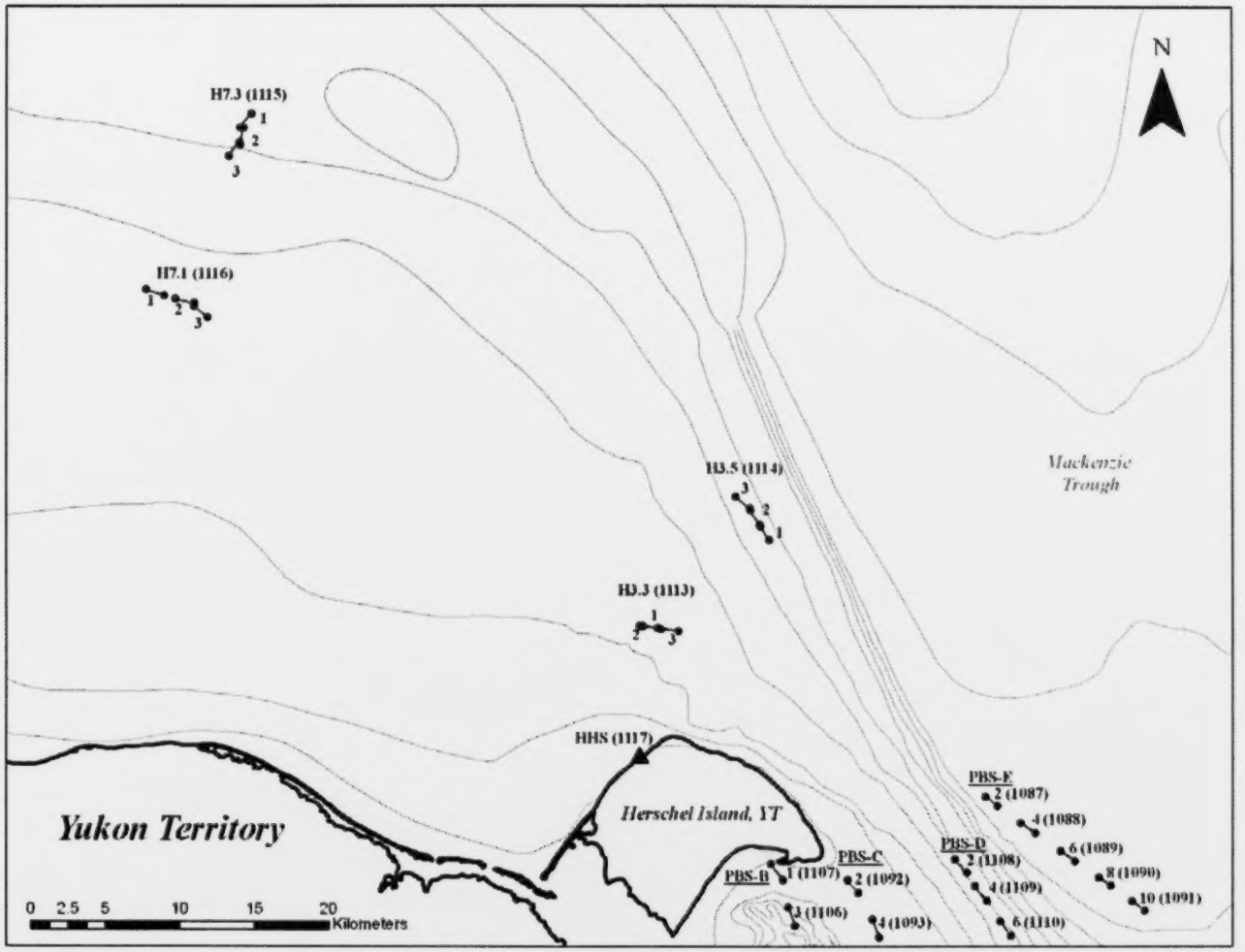

Figure 3. Transect and trawl deployment locations from CCGS *Nahidik* during August 2007 north and west of Herschel Island, YT. Bathymetric contours represent 10 m depth increments.

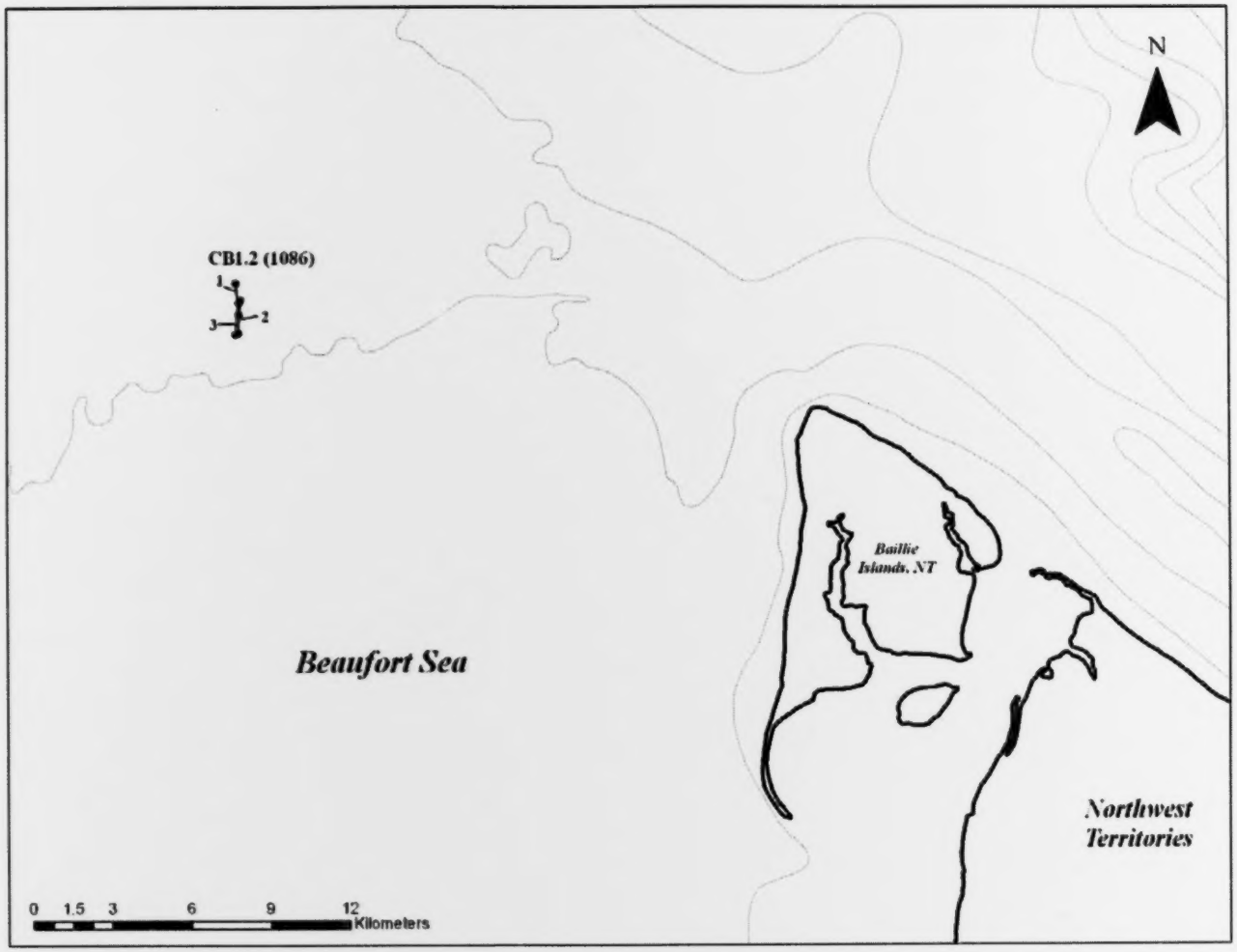

Figure 4. Transect and trawl deployment locations from CCGS *Nahidik* during July 2007 near Cape Bathurst, NT. Bathymetric contours represent 10 m depth increments.

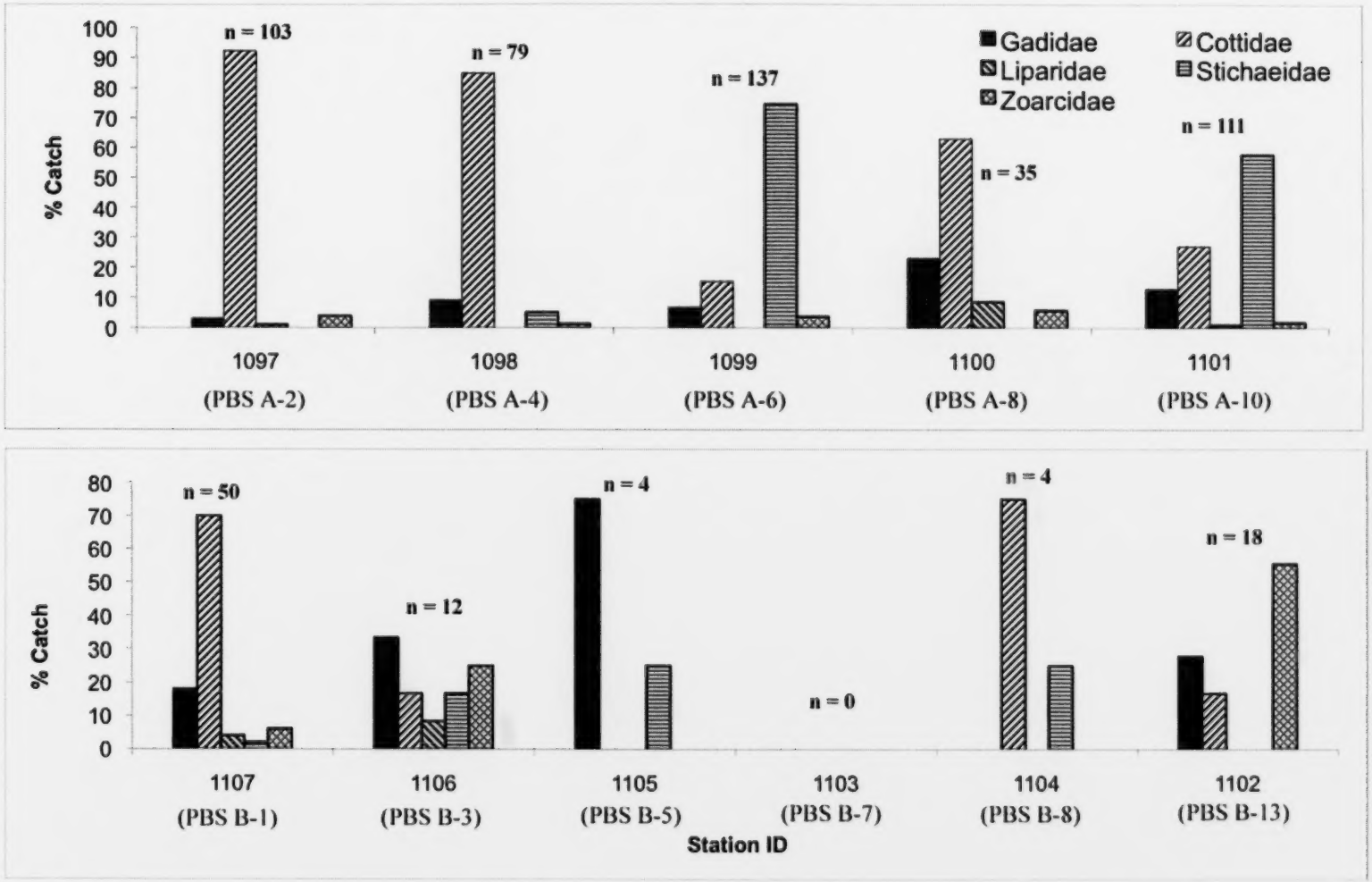

Figure 5. Relative species composition of benthic trawl catches along Herschel Island transects PBS A and PBS B during leg 1 of the CCGS *Nahidik* cruise, August 2007.

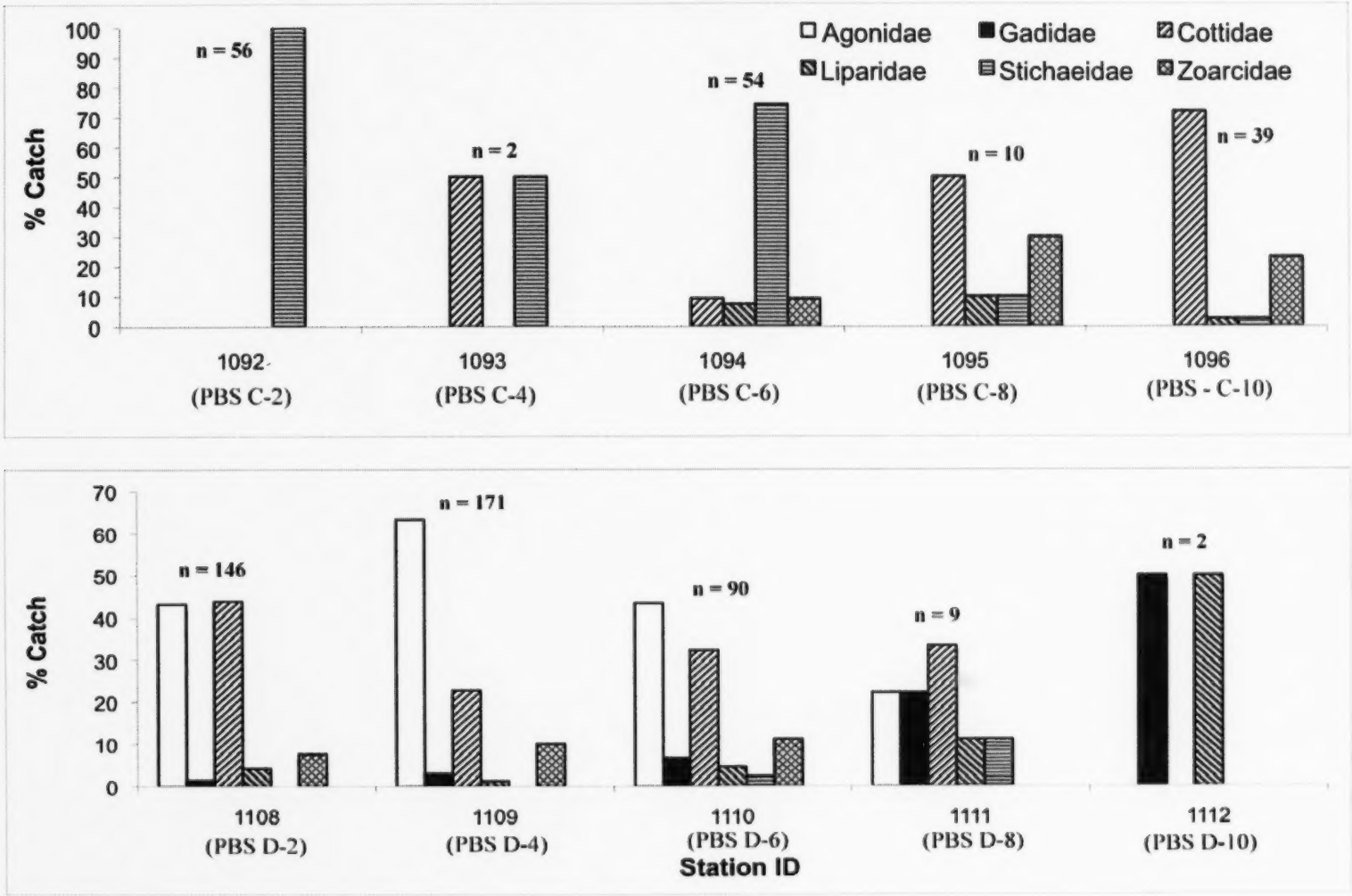

Figure 6. Relative species composition of benthic trawl catches along Herschel Island transects PBS C and PBS D during leg 1 of the CCGS *Nahidik* cruise, August 2007.

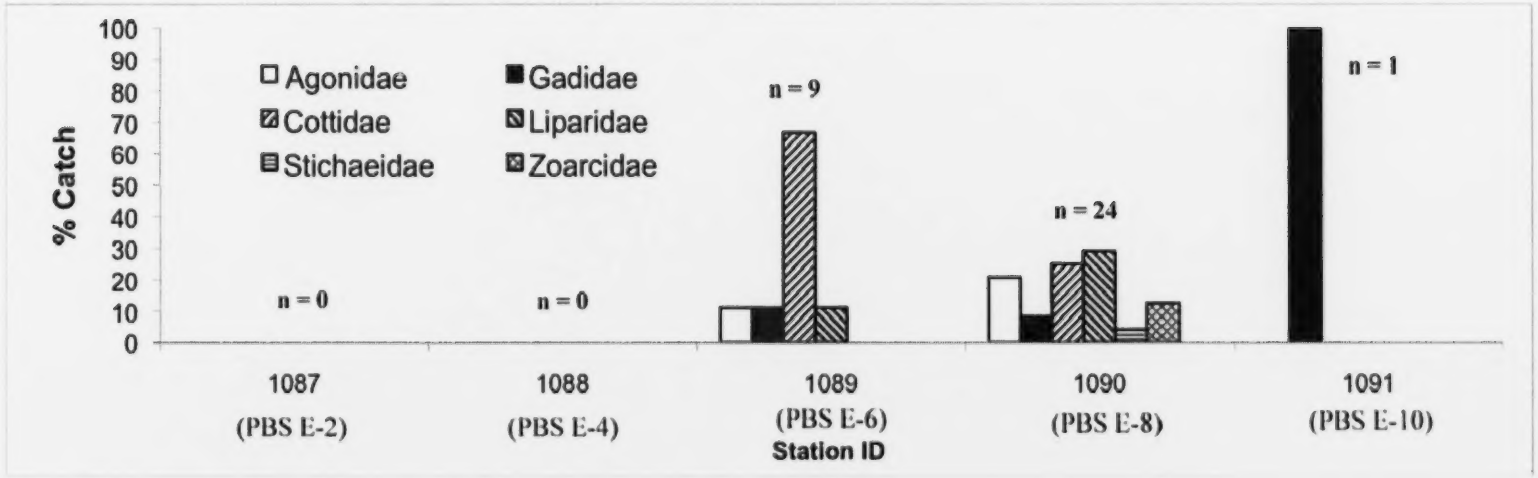

Figure 7. Relative species composition of benthic trawl catches along Herschel Island transect PBS E during leg 1 of the CCGS *Nahidik* cruise, August 2007.

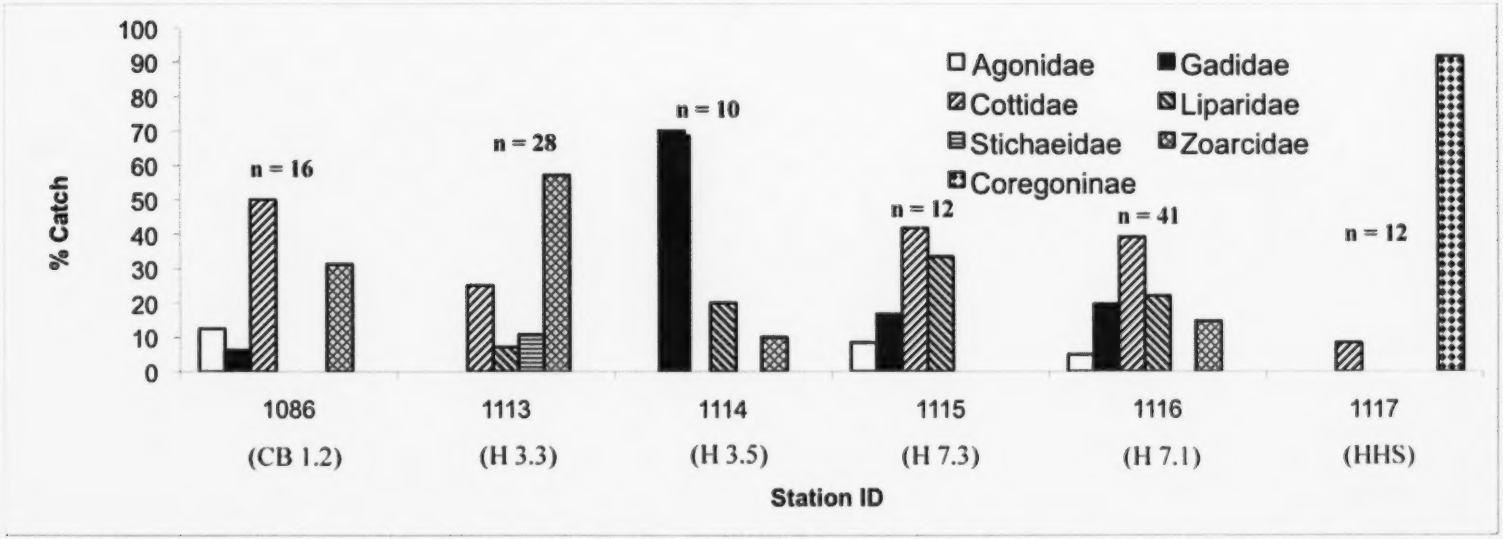

Figure 8. Relative species composition of benthic trawl catches at Cape Bathurst, and gill net catches along the northwest shore of Herschel Island, during leg 1 of the CCGS *Nahidik* cruise, July and August 2007.

Appendix A. Species codes, scientific and common names of fish captured during the CCGS *Nahidik* fishing program, July and August 2007.

Species Code	[a]Scientific Name	[a]Common Name
ARAF	*Ulcina olrikii* (Lütken, 1876)	Arctic Alligatorfish
ARCD	*Boreogadus saida* (Lepechin, 1774)	Arctic Cod
ARCS	*Coregonus autumnalis* (Pallas, 1776)	Arctic Cisco
AREP	*Lycodes reticulatus* Reinhardt, 1835	Arctic Eelpout
ARSS	*Gymnocanthus tricuspis* (Reinhardt, 1830)	Arctic Staghorn Sculpin
FHSC	*Myoxocephalus quadricornis* (Linnaeus, 1758)	Fourhorn Sculpin
FLSB	*Eumesogrammus praecisus* (Krøyer, 1837)	Fourline Snakeblenny
FSDR	*Gymnelus viridis* (Fabricius, 1780)	Fish Doctor
GLSS	*Liparis fabricii* Kroyer, 1847	Gelatinous Seasnail
HAME	*Artediellus scaber* Knipowitsch, 1907	Hamecon
HBPT	*Gymnelus hemifasciatus* Andriashev, 1937	Halfbarred Pout
KPSF	*Liparis tunicatus* Reinhardt, 1837	Kelp Snailfish
LSCS	*Coregonus sardinella* Valenciennes, 1848	Least Cisco
PLEP	*Lycodes polaris* (Sabine, 1824)	Polar Eelpout
PAEP	*Lycodes pallidus* Collett, 1879	Pale Eelpout
RBSC	*Triglops pingelii* Reinhardt, 1837	Ribbed Sculpin
SHSC	*Myoxocephalus scorpius* (Linnaeus, 1758)	Shorthorn Sculpin
SPSC	*Icelus spatula* Gilbert & Burke, 1912	Spatulate Sculpin
STEB	*Anisarchus medius* (Reinhardt, 1837)	Stout Eelblenny
THSC	*Icelus bicornis* (Reinhardt, 1840)	Twohorn Sculpin
TSEP	*Lycodes rossi* Malmgren, 1865	Threespot Eelpout
n/a	*Liparidae sp.*	unidentified Liparidae
n/a	*Lycodes sp.*	unidentified Lycodes
n/a	*Stichaeidae sp.*	unidentified Stichaeidae
n/a	*Icelus sp.*	unidentified Icelus

[a]Scientific and common names sourced from Nelson et al. 2004.

Appendix B. Specific locations and deployment data for the benthic trawl and gill nets during the 2007 CCGS *Nahidik* fishing program.

			Deployment Locations											
Date	Station ID	Gear Deploy. ID	Start Latitude	Start Longitude	End Latitude	End Longitude	Bottom Depth (m)	Set Depth (m)	[a]Time In (UTC)	[a]Time Out (UTC)	Ship Speed (m/s)	[b]Dist. (m)	Area swept (m^2)	Trawl Pattern
31-Jul-07	1086	BT-07-01	70d41.76	128d50.39	70d42.40	128d50.39	23.5	Bottom	18:17	18:37	1.03	1236	3461	Straight
31-Jul-07	1086	BT-07-02	70d41.39	128d50.51	70d42.05	128d50.21	22.5	Bottom	19:03	19:23	1.03	1236	3461	Straight
31-Jul-07	1086	BT-07-03	70d41.35	128d50.70	70d41.99	128d50.30	22.5	Bottom	19:46	20:06	1.03	1236	3461	Straight
02-Aug-07	1087	BT-07-04	69d36.90	138d34.40	69d36.59	138d33.06	115.0	Bottom	14:58	15:18	0.87	1044	2923	Straight
02-Aug-07	1088	BT-07-05	69d36.02	138d30.55	69d35.68	138d28.96	120.0	Bottom	16:51	17:11	1.08	1296	3629	Straight
02-Aug-07	1089	BT-07-06	69d35.10	138d26.24	69d34.76	138d24.71	119.0	Bottom	17:37	17:57	1.03	1236	3461	Straight
02-Aug-07	1090	BT-07-07	69d34.22	138d22.20	69d33.96	138d20.89	115.0	Bottom	18:29	18:49	1.03	1236	3461	Straight
02-Aug-07	1091	BT-07-08	69d33.44	138d18.56	69d33.11	138d17.23	110.0	Bottom	19:32	19:52	0.87	1044	2923	Straight
04-Aug-07	1092	BT-07-09	69d33.60	138d48.15	69d33.17	138d46.93	13.0	Bottom	0:32	0:52	1.03	1236	3461	Straight
04-Aug-07	1093	BT-07-10	69d32.22	138d45.36	69d31.59	138d44.52	15.5	Bottom	1:11	1:31	1.03	1236	3461	Straight
04-Aug-07	1094	BT-07-11	69d30.74	138d42.97	69d30.16	138d42.04	16.0	Bottom	1:48	2:08	1.03	1236	3461	Straight
04-Aug-07	1095	BT-07-12	69d29.44	138d40.73	69d28.88	138d39.80	16.0	Bottom	2:50	3:10	1.03	1236	3461	Straight
04-Aug-07	1096	BT-07-13	69d27.99	138d38.23	69d27.41	138d37.24	15.0	Bottom	3:30	3:50	1.03	1236	3461	Straight
05-Aug-07	1097	BT-07-14	69d30.07	139d00.99	69d29.49	139d00.13	9.0	Bottom	21:46	22:06	1.03	1236	3461	Straight
05-Aug-07	1098	BT-07-15	69d28.91	138d59.21	69d28.33	138d58.24	10.6	Bottom	22:22	22:42	1.03	1236	3461	Straight
05-Aug-07	1099	BT-07-16	69d27.53	138d56.94	69d26.87	138d55.98	12.0	Bottom	22:58	23:18	1.03	1236	3461	Straight
05-Aug-07	1100	BT-07-17	69d26.10	138d54.42	69d25.63	138d53.71	10.0	Bottom	23:32	23:52	1.03	1236	3461	Straight
05-Aug-07	1101	BT-07-18	69d24.68	138d52.18	69d23.99	138d51.46	10.0	Bottom	0:15	0:35	1.03	1236	3461	Straight
05-Aug-07	1102	BT-07-19	69d25.08	138d44.75	69d24.46	138d43.95	19.0-22.5	Bottom	1:10	1:30	1.03	1236	3461	Straight
06-Aug-07	1103	BT-07-20	69d29.22	138d50.36	69d28.89	138d49.63	66.0	Bottom	23:50	0:02	1.03	1236	3461	Straight
06-Aug-07	1104	BT-07-21	69d28.69	138d49.38	69d28.03	138d48.57	33.0-55.0	Bottom	0:27	0:47	1.03	1236	3461	Straight
06-Aug-07	1105	BT-07-22	69d30.99	138d52.21	69d30.37	138d51.29	38.0-54.0	Bottom	1:36	1:56	1.03	1236	3461	Straight
06-Aug-07	1106	BT-07-23	69d32.47	138d54.08	69d31.82	138d53.25	30.0	Bottom	2:36	2:56	1.03	1236	3461	Straight
06-Aug-07	1107	BT-07-24	69d34.01	138d56.16	69d33.44	138d54.84	9.2	Bottom	3:34	3:54	1.03	1236	3461	Straight
08-Aug-07	1108	BT-07-25	69d34.57	138d37.14	69d34.12	138d35.85	50.0-64.0	Bottom	13:39	13:59	1.03	1236	3461	Straight
08-Aug-07	1109	BT-07-26	69d33.66	138d34.93	69d33.15	138d33.62	57.0	Bottom	15:25	15:45	1.03	1236	3461	Straight
08-Aug-07	1110	BT-07-27	69d32.44	138d32.13	69d31.93	138d30.95	51.0	Bottom	16:05	16:26	1.03	1236	3461	Straight

Appendix B. Continued…

Deployment Locations														
Date	Station ID	Gear Deploy. ID	Start Latitude	Start Longitude	End Latitude	End Longitude	Bottom Depth (m)	Set Depth (m)	[a]Time In (UTC)	[a]Time Out (UTC)	Ship Speed (m/s)	[b]Dist. (m)	Area swept (m^2)	Trawl Pattern
08-Aug-07	1111	BT-07-28	69d31.25	138d29.41	69d30.70	138d28.14	52.0	Bottom	16:52	17:12	1.03	1236	3461	Straight
08-Aug-07	1112	BT-07-29	69d29.97	138d26.83	69d29.40	138d25.58	53.0	Bottom	17:27	17:47	1.03	1236	3461	Straight
09-Aug-07	1113	BT-07-30	69d42.29	139d10.98	69d42.25	139d09.49	38.0	Bottom	16:28	16:48	1.03	1236	3461	Straight
09-Aug-07	1113	BT-07-31	69d42.27	139d11.38	69d42.21	139d09.84	38.0	Bottom	17:08	17:28	1.03	1236	3461	Straight
09-Aug-07	1113	BT-07-32	69d42.21	139d09.14	69d42.19	139d07.30	39.0	Bottom	17:40	18:00	1.03	1236	3461	Straight
10-Aug-07	1114	BT-07-33	69d45.70	138d58.45	69d46.17	138d59.49	61.0	Bottom	17:12	17:32	1.03	1236	3461	Straight
10-Aug-07	1114	BT-07-34	69d46.22	138d59.57	69d46.73	139d00.66	61.0	Bottom	17:49	18:09	1.03	1236	3461	Straight
10-Aug-07	1114	BT-07-35	69d46.80	139d00.72	69d47.18	139d02.26	59.0	Bottom	18:24	18:44	1.03	1236	3461	Straight
11-Aug-07	1115	BT-07-36	69d59.74	139d55.92	69d59.20	139d56.98	60.0	Bottom	15:25	15:45	1.03	1236	3461	Straight
11-Aug-07	1115	BT-07-37	69d59.22	139d56.59	69d58.59	139d56.82	60.0	Bottom	16:08	16:28	1.13	1356	3797	Straight
11-Aug-07	1115	BT-07-38	69d58.69	139d56.90	69d58.14	139d57.94	58.0	Bottom	16:47	17:07	1.03	1236	3461	Straight
11-Aug-07	1116	BT-07-39	69d53.07	140d05.44	69d52.90	140d03.52	38.0	Bottom	20:34	20:54	1.03	1236	3461	Straight
11-Aug-07	1116	BT-07-40	69d52.83	140d02.25	69d52.73	140d00.29	38.0	Bottom	21:09	21:29	1.03	1236	3461	Straight
11-Aug-07	1116	BT-07-41	69d52.60	140d00.27	69d52.24	139d58.74	36.0	Bottom	21:44	22:04	1.03	1236	3461	Straight
12-Aug-07	1117	GN-07-01	69d37.54	139d10.21	n/a	n/a	2.0	Bottom	23:30	23:47	n/a	n/a	n/a	n/a
12-Aug-07	1117	GN-0702	69d37.58	139d10.30	n/a	n/a	2.0	Bottom	23:47	0:06	n/a	n/a	n/a	n/a

[a]Local time offset for UTC is + 6 hours.
[b]Distance = (time in – time out) x (mean ship speed). This method was used because the timing of geographic coordinates recorded on the ship's bridge did not always coincide exactly with start/end times recorded on the deck. Also, variations in the direction/pattern that the ship travelled are not accounted for when using the start/end geographic coordinates to calculate distance travelled.

Appendix C. Basic biological data for fish caught in the benthic trawl and gill nets.

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1086	ARCD	BT-07-01	800	n/a	3.0	83	78	87	n/a	n/a	0
1086	HBPT	BT-07-03	801	n/a	0.2	n/a	n/a	95	n/a	n/a	n/a
1086	SPSC	BT-07-03	802	1	0.9	n/a	40	48	0.008	n/a	6
1086	ARAF	BT-07-03	803	n/a	n/a	n/a	36	42	n/a	n/a	n/a
1086	ARAF	BT-07-03	804	n/a	n/a	n/a	38	43	n/a	n/a	n/a
1086	HBPT	BT-07-03	805	n/a	2.4	n/a	n/a	95	n/a	n/a	n/a
1086	Lycodes sp.	BT-07-03	806	n/a	0.1	n/a	n/a	34	n/a	n/a	n/a
1086	HBPT	BT-07-03	807	n/a	0.5	n/a	n/a	59	n/a	n/a	n/a
1086	HBPT	BT-07-03	808	n/a	0.2	n/a	n/a	48	n/a	n/a	n/a
1086	Icelus sp.	BT-07-03	809	n/a	0.2	n/a	27	33	n/a	n/a	0
1086	SPSC	BT-07-03	810	1	0.8	n/a	38	46	0.005	n/a	6
1086	SPSC	BT-07-03	811	2	0.7	n/a	37	45	0.005	n/a	1
1086	SPSC	BT-07-03	812	1	0.8	n/a	36	44	0.005	n/a	6
1086	SPSC	BT-07-03	813	1	1.3	n/a	41	50	0.049	n/a	7
1086	ARSS	BT-07-03	814	1	2.0	n/a	47	56	0.069	n/a	7
1086	ARSS	BT-07-03	815	1	4.6	n/a	63	75	0.182	n/a	7
1089	ARCD	BT-07-06	816	n/a	1.6	71	61	72	0.016	n/a	0
1089	THSC	BT-07-06	817	2	1.9	n/a	50	60	0.011	n/a	7
1089	THSC	BT-07-06	818	2	1.2	n/a	43	52	0.008	n/a	1
1089	GLSS	BT-07-06	819	2	1.7	n/a	54	62	0.011	n/a	1
1089	THSC	BT-07-06	820	2	2.1	n/a	51	60	0.034	n/a	1
1089	THSC	BT-07-06	821	2	1.0	n/a	40	48	0.005	n/a	1
1089	THSC	BT-07-06	822	2	1.7	n/a	49	59	0.015	n/a	1
1089	THSC	BT-07-06	823	2	1.1	n/a	43	52	0.003	n/a	1
1089	ARAF	BT-07-06	824	n/a	n/a	n/a	58	66	n/a	n/a	n/a
1090	PLEP	BT-07-07	825	n/a	81.2	n/a	240	245	n/a	n/a	n/a
1090	PLEP	BT-07-07	826	n/a	7.1	n/a	119	122	n/a	n/a	n/a
1090	KPSF	BT-07-07	827	2	5.7	n/a	75	84	0.152	n/a	1
1090	GLSS	BT-07-07	828	1	6.6	n/a	85	93	0.053	n/a	7
1090	GLSS	BT-07-07	829	1	3.1	n/a	65	75	0.008	n/a	0
1090	ARAF	BT-07-07	830	n/a	n/a	n/a	58	66	n/a	n/a	n/a
1090	ARAF	BT-07-07	831	n/a	n/a	n/a	57	65	n/a	n/a	n/a
1090	ARCD	BT-07-07	832	n/a	5.4	n/a	98	105	n/a	n/a	n/a
1090	SPSC	BT-07-07	833	1	1.2	n/a	44	53	0.012	n/a	6
1090	THSC	BT-07-07	834	2	2.4	n/a	52	62	0.025	n/a	1
1090	THSC	BT-07-07	835	1	2.0	n/a	49	58	0.023	n/a	7
1090	GLSS	BT-07-07	836	2	2.3	n/a	58	65	0.029	n/a	1
1090	GLSS	BT-07-07	837	1	3.6	n/a	68	80	0.026	n/a	7
1090	Liparidae sp.	BT-07-07	838	1	2.5	n/a	60	69	0.019	n/a	7
1090	KPSF	BT-07-07	839	1	2.0	n/a	58	65	0.017	n/a	7
1090	ARCD	BT-07-07	840	n/a	1.3	n/a	66	70	n/a	n/a	0
1090	SPSC	BT-07-07	841	1	2.1	n/a	51	61	0.05	n/a	7
1090	SPSC	BT-07-07	842	2	1.9	n/a	52	61	0.033	n/a	1
1090	Icelus sp	BT-07-07	843	n/a	0.2	n/a	29	33	n/a	n/a	0

Appendix C. Continued...

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1090	ARAF	BT-07-07	844	n/a	n/a	n/a	48	54	n/a	n/a	n/a
1090	ARAF	BT-07-07	845	n/a	n/a	n/a	47	55	n/a	n/a	n/a
1090	ARAF	BT-07-07	846	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1090	STEB	BT-07-07	847	n/a	1.1	n/a	65	73	n/a	n/a	n/a
1090	Stichaeidae sp	BT-07-07	848	n/a	0.5	n/a	52	54	n/a	n/a	n/a
1091	ARCD	BT-07-08	849	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-2	n/a	0.0	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-3	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-4	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-5	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-6	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-7	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-8	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-9	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-10	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-11	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-12	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-13	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-14	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-15	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-16	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-17	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-18	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-19	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	850-20	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1092	Stichaeidae sp	BT-07-09	851 (n=36)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1093	ARSS	BT-07-10	852	1	3.1	n/a	57	68	0.18	n/a	7
1093	Stichaeidae sp	BT-07-10	853	n/a	0.0	n/a	n/a	n/a	n/a	n/a	n/a
1094	ARSS	BT-07-11	854	1	3.8	n/a	63	74	0.216	n/a	7
1094	HAME	BT-07-11	855	2	3.5	n/a	56	68	0.171	n/a	2
1094	ARSS	BT-07-11	856	1	2.4	n/a	56	65	0.091	n/a	7
1094	Stichaeidae sp	BT-07-11	857	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1094	TSEP	BT-07-11	858	n/a	7.6	n/a	121	123	n/a	n/a	n/a
1094	FSDR	BT-07-11	859	n/a	2.3	n/a	89	92	n/a	n/a	n/a
1094	Lycodes sp.	BT-07-11	860	n/a	0.1	n/a	28	29	n/a	n/a	n/a
1094	Lycodes sp.	BT-07-11	861	n/a	0.1	n/a	34	36	n/a	n/a	n/a
1094	Lycodes sp.	BT-07-11	862	n/a	0.1	n/a	33	35	n/a	n/a	n/a
1094	Icelus sp	BT-07-11	863	n/a	0.2	n/a	28	33	n/a	n/a	0
1094	Liparidae sp.	BT-07-11	864	n/a	0.1	n/a	14	17	n/a	n/a	n/a
1094	Liparidae sp.	BT-07-11	865	n/a	0.5	n/a	19	22	n/a	n/a	n/a
1094	Liparidae sp.	BT-07-11	866	n/a	0.1	n/a	19	22	n/a	n/a	n/a
1094	Liparidae sp.	BT-07-11	867	n/a	0.1	n/a	27	28	n/a	n/a	n/a
1094	Stichaeidae sp	BT-07-11	868	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1094	PBS-C	BT-07-11	869	n/a	0.0	n/a	n/a	14	n/a	n/a	n/a
1095	PAEP	BT-07-12	870	n/a	20.8	n/a	187	192	n/a	n/a	n/a

Appendix C. Continued...

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1095	GLSS	BT-07-12	871	n/a	13.2	n/a	82	91	n/a	n/a	n/a
1095	Stichaeidae sp	BT-07-12	872	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1095	HBPT	BT-07-12	873	n/a	2.0	n/a	87	90	n/a	n/a	n/a
1095	Lycodes sp	BT-07-12	874	n/a	0.1	n/a	31	33	n/a	n/a	n/a
1095	THSC	BT-07-12	875	n/a	0.3	n/a	30	36	0.296	n/a	0
1095	THSC	BT-07-12	876	n/a	0.3	n/a	29	35	n/a	n/a	0
1095	Icelus sp	BT-07-12	877	n/a	0.2	n/a	25	30	n/a	n/a	0
1095	Icelus sp	BT-07-12	878	n/a	0.2	n/a	28	34	n/a	n/a	0
1095	THSC	BT-07-12	879	n/a	0.3	n/a	28	34	n/a	n/a	0
1096	HAME	BT-07-13	880	1	6.2	n/a	67	81	0.051	n/a	7
1096	HAME	BT-07-13	881	1	3.4	n/a	56	68	0.025	n/a	7
1096	HAME	BT-07-13	882	1	5.0	n/a	61	75	0.044	n/a	7
1096	HAME	BT-07-13	883	n/a	4.4	n/a	59	72	n/a	n/a	n/a
1096	HAME	BT-07-13	884	2	3.0	n/a	50	63	0.134	n/a	1/2
1096	ARSS	BT-07-13	885	1	2.3	n/a	55	66	0.013	n/a	6
1096	ARSS	BT-07-13	886	2	4.2	n/a	63	76	0.101	n/a	1/2
1096	ARSS	BT-07-13	887	1	3.6	n/a	61	71	0.16	n/a	7
1096	SHSC	BT-07-13	888	2	17.4	n/a	96	113	0.131	n/a	1
1096	ARSS	BT-07-13	889	1	1.1	n/a	43	50	0.009	n/a	6
1096	HAME	BT-07-13	890	1	3.3	n/a	54	66	0.022	n/a	7
1096	ARSS	BT-07-13	891	1	1.3	n/a	45	53	0.007	n/a	6
1096	HAME	BT-07-13	892	1	1.7	n/a	43	53	0.005	n/a	7
1096	ARSS	BT-07-13	893	1	1.3	n/a	44	52	0.004	n/a	6
1096	ARSS	BT-07-13	894	1	1.9	n/a	51	59	0.007	n/a	6
1096	ARSS	BT-07-13	895	1	1.6	n/a	49	57	0.011	n/a	6
1096	ARSS	BT-07-13	896	1	1.7	n/a	49	58	0.012	n/a	6
1096	ARSS	BT-07-13	897	1	1.7	n/a	47	56	0.018	n/a	6
1096	ARSS	BT-07-13	898	2	2.2	n/a	51	62	0.031	n/a	1
1096	ARSS	BT-07-13	899	1	1.8	n/a	49	57	0.009	n/a	6
1096	ARSS	BT-07-13	900	1	1.3	n/a	43	52	0.004	n/a	6
1096	ARSS	BT-07-13	901	2	2.1	n/a	51	60	0.021	n/a	1
1096	ARSS	BT-07-13	902	2	1.6	n/a	47	55	0.014	n/a	1
1096	ARSS	BT-07-13	903	2	2.2	n/a	51	60	0.029	n/a	1
1096	ARSS	BT-07-13	904	2	1.8	n/a	50	58	0.021	n/a	1
1096	ARSS	BT-07-13	905	1	1.7	n/a	47	56	0.007	n/a	6
1096	THSC	BT-07-13	906	n/a	0.2	n/a	26	31	n/a	n/a	0
1096	ARSS	BT-07-13	907	n/a	0.2	n/a	24	29	n/a	n/a	0
1096	Liparidae sp.	BT-07-13	908	n/a	0.1	n/a	22	24	n/a	n/a	n/a
1096	FLSB	BT-07-13	909	n/a	7.3	n/a	91	106	n/a	n/a	n/a
1096	HBPT	BT-07-13	910	n/a	0.1	n/a	31	32	n/a	n/a	n/a
1096	HBPT	BT-07-13	911	n/a	1.1	n/a	74	77	n/a	n/a	n/a
1096	HBPT	BT-07-13	912	n/a	1.0	n/a	72	74	n/a	n/a	n/a
1096	FSDR	BT-07-13	913	n/a	0.5	n/a	61	63	n/a	n/a	n/a
1096	FSDR	BT-07-13	914	n/a	2.3	n/a	89	92	n/a	n/a	n/a
1096	FSDR	BT-07-13	915	n/a	3.9	n/a	113	116	n/a	n/a	n/a
1096	HBPT	BT-07-13	916	n/a	3.6	n/a	108	112	n/a	n/a	n/a

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1096	HBPT	BT-07-13	917	n/a	5.6	n/a	121	127	n/a	n/a	n/a
1096	HBPT	BT-07-13	918	n/a	3.6	n/a	107	111	n/a	n/a	n/a
1097	ARCD	BT-07-14	919	1	4.9*	n/a	92	101	0.030	n/a	6
1097	ARCD	BT-07-14	920	2	5.3*	n/a	95	105	0.079	n/a	1
1097	ARCD	BT-07-14	921	n/a	2.9*	n/a	80	88	0.032	n/a	0
1098	ARCD	BT-07-15	922	2	5.1*	n/a	88	96	0.042	n/a	6
1098	ARCD	BT-07-15	923	n/a	4.9*	n/a	92	99	n/a	n/a	n/a
1098	ARCD	BT-07-15	924	1	18.4*	n/a	136	150	0.747	n/a	7
1098	ARCD	BT-07-15	925	2	5.7*	n/a	94	103	0.128	n/a	1
1097	PLEP	BT-07-14	926	n/a	27.9	n/a	18	19	n/a	n/a	n/a
1097	PLEP	BT-07-14	927	n/a	14.5	n/a	15	16	n/a	n/a	n/a
1097	ARSS	BT-07-14	928	1	4.9	n/a	67	80	0.341	n/a	7
1097	ARSS	BT-07-14	929	1	2.4	n/a	52	61	0.019	n/a	7
1097	ARSS	BT-07-14	930	2	2.8	n/a	55	65	0.04	n/a	1
1097	ARSS	BT-07-14	931	2	2.5	n/a	54	66	0.027	n/a	1
1097	HAME	BT-07-14	932	2	2.7	n/a	52	63	0.102	n/a	2
1097	ARSS	BT-07-14	933	1	3.2	n/a	56	66	0.05	n/a	7
1097	HAME	BT-07-14	934	2	2.1	n/a	48	59	0.071	n/a	2
1097	HAME	BT-07-14	935	2	1.9	n/a	44	55	0.054	n/a	2
1097	ARSS	BT-07-14	936	1	2.5	n/a	53	63	0.011	n/a	6
1097	ARSS	BT-07-14	937	2	3.6	n/a	58	69	0.069	n/a	1
1097	ARSS	BT-07-14	938	1	2.3	n/a	51	62	0.006	n/a	6
1097	HAME	BT-07-14	939	2	2.1	n/a	47	58	0.081	n/a	2
1097	ARSS	BT-07-14	940	1	4.3	n/a	62	74	0.196	n/a	7
1097	ARSS	BT-07-14	941	1	2.4	n/a	53	64	0.019	n/a	6
1097	ARSS	BT-07-14	942	1	2.6	n/a	55	66	0.015	n/a	6
1097	ARSS	BT-07-14	943	1	1.0	n/a	40	48	0.004	n/a	6
1097	ARSS	BT-07-14	944	1	3.3	n/a	55	67	0.031	n/a	6
1097	KPSF	BT-07-14	945	1	1.5	n/a	48	56	0.013	n/a	6
1097	HBPT	BT-07-14	946	n/a	7.1	n/a	138	142	n/a	n/a	n/a
1097	FSDR	BT-07-14	947	n/a	2.2	n/a	96	98	n/a	n/a	n/a
1097	ARSS	BT-07-14	948	1	2.7	n/a	54	64	0.028	n/a	7
1097	ARSS	BT-07-14	949	2	1.7	n/a	48	57	0.021	n/a	1
1097	ARSS	BT-07-14	950	2	3.5	n/a	56	66	0.059	n/a	1
1097	ARSS	BT-07-14	951	2	1.2	n/a	43	52	0.013	n/a	1
1097	ARSS	BT-07-14	952	1	1.3	n/a	42	49	0.004	n/a	6
1097	ARSS	BT-07-14	953	2	1.7	n/a	47	56	0.015	n/a	1
1097	HAME	BT-07-14	954	2	1.4	n/a	40	49	0.022	n/a	2
1097	ARSS	BT-07-14	955	2	2.2	n/a	50	59	0.032	n/a	1
1097	ARSS	BT-07-14	956	2	2.0	n/a	47	56	0.019	n/a	1
1097	ARSS	BT-07-14	957	2	2.1	n/a	50	58	0.023	n/a	1
1097	HAME	BT-07-14	958	n/a	0.4	n/a	26	33	n/a	n/a	0
1097	ARSS	BT-07-14	959	1	2.1	n/a	49	59	0.008	n/a	6
1097	ARSS	BT-07-14	960	2	1.1	n/a	41	48	0.009	n/a	1
1097	ARSS	BT-07-14	961	1	0.9	n/a	39	47	0.003	n/a	6
1097	ARSS	BT-07-14	962	2	1.5	n/a	45	54	0.016	n/a	1

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1097	ARSS	BT-07-14	963	1	1.6	n/a	46	56	0.045	n/a	7
1097	RBSC	BT-07-14	964	n/a	1.3	n/a	55	63	0.003	n/a	0
1097	HAME	BT-07-14	965	n/a	0.6	n/a	30	38	n/a	n/a	0
1097	ARSS	BT-07-14	966	2	3.3	n/a	57	68	0.089	n/a	1
1097	ARSS	BT-07-14	967	2	1.9	n/a	46	56	0.022	n/a	1
1097	ARSS	BT-07-14	968	2	1.7	n/a	46	56	0.021	n/a	1
1097	ARSS	BT-07-14	969	1	1.9	n/a	49	58	0.008	n/a	6
1097	ARSS	BT-07-14	970	2	1.5	n/a	44	53	0.016	n/a	1
1097	ARSS	BT-07-14	971	2	1.0	n/a	39	45	0.01	n/a	1
1097	ARSS	BT-07-14	972	2	1.6	n/a	45	53	0.014	n/a	1
1097	ARSS	BT-07-14	973	1	1.1	n/a	40	48	0.005	n/a	6
1097	ARSS	BT-07-14	974	2	2.0	n/a	45	55	0.019	n/a	1
1097	HAME	BT-07-14	975	2	2.4	n/a	48	59	0.08	n/a	2
1097	ARSS	BT-07-14	976	2	1.8	n/a	47	58	0.027	n/a	1
1097	ARSS	BT-07-14	977	1	1.5	n/a	43	54	0.005	n/a	6
1097	ARSS	BT-07-14	978	n/a	1.1	n/a	41	48	0.003	n/a	0
1097	ARSS	BT-07-14	979	2	1.3	n/a	43	51	0.014	n/a	1
1097	ARSS	BT-07-14	980	1	2.8	n/a	52	63	0.019	n/a	7
1097	ARSS	BT-07-14	981	1	2.3	n/a	53	63	0.013	n/a	7
1097	ARSS	BT-07-14	982	1	1.3	n/a	43	52	0.003	n/a	6
1097	ARSS	BT-07-14	983	1	2.1	n/a	49	58	0.013	n/a	7
1097	ARSS	BT-07-14	984	1	1.5	n/a	47	56	0.004	n/a	6
1097	ARSS	BT-07-14	985	1	2.0	n/a	48	58	0.011	n/a	7
1097	ARSS	BT-07-14	986	2	1.5	n/a	48	54	0.015	n/a	1
1097	ARSS	BT-07-14	987	1	1.4	n/a	44	52	0.005	n/a	6
1097	ARSS	BT-07-14	988	1	2.3	n/a	53	63	0.015	n/a	6
1097	ARSS	BT-07-14	989	2	1.7	n/a	46	54	0.014	n/a	1
1097	ARSS	BT-07-14	990	2	1.1	n/a	40	47	0.011	n/a	1
1097	ARSS	BT-07-14	991	1	2.1	n/a	51	61	0.022	n/a	7
1097	ARSS	BT-07-14	992	n/a	0.2	n/a	23	28	n/a	n/a	0
1097	ARSS	BT-07-14	993	1	1.5	n/a	46	55	0.006	n/a	6/7
1097	ARSS	BT-07-14	994	1	2.3	n/a	52	61	0.023	n/a	7
1097	ARSS	BT-07-14	995	1	1.3	n/a	44	54	0.007	n/a	7
1097	ARSS	BT-07-14	996	1	1.3	n/a	42	50	0.007	n/a	6
1097	ARSS	BT-07-14	997	2	2.5	n/a	50	60	0.028	n/a	1
1097	ARSS	BT-07-14	998	2	2.1	n/a	48	57	0.025	n/a	1
1097	ARSS	BT-07-14	999	1	1.3	n/a	42	50	0.007	n/a	7
1097	HAME	BT-07-14	1000	n/a	0.8	n/a	32	41	0.002	n/a	0
1097	ARSS	BT-07-14	1001	2	1.5	n/a	44	51	0.017	n/a	1
1097	HAME	BT-07-14	1002	2	1.1	n/a	36	44	0.015	n/a	1
1097	ARSS	BT-07-14	1003	2	1.1	n/a	41	49	0.013	n/a	1
1097	ARSS	BT-07-14	1004	1	1.5	n/a	45	55	0.015	n/a	7
1097	ARSS	BT-07-14	1005	1	1.9	n/a	48	58	0.0028	n/a	7
1097	ARSS	BT-07-14	1006	2	1.8	n/a	47	58	0.021	n/a	1
1097	HAME	BT-07-14	1007	2	1.1	n/a	37	46	0.015	n/a	2
1097	ARSS	BT-07-14	1008	2	2.2	n/a	47	58	0.028	n/a	1

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1097	HAME	BT-07-14	1009	2	1.3	n/a	37	46	0.014	n/a	4/5
1097	ARSS	BT-07-14	1010	n/a	1.4	n/a	46	54	0.005	n/a	0
1097	ARSS	BT-07-14	1011	2	3.3	n/a	56	68	0.062	n/a	1
1097	ARSS	BT-07-14	1012	1	3.0	n/a	57	67	0.175	n/a	7
1097	ARSS	BT-07-14	1013	1	2.7	n/a	53	64	0.164	n/a	7
1097	ARSS	BT-07-14	1014	1	1.1	n/a	40	47	0.006	n/a	0
1097	ARSS	BT-07-14	1015	n/a	0.8	n/a	36	43	0.005	n/a	0
1097	ARSS	BT-07-14	1016	1	1.2	n/a	34	53	0.007	n/a	7
1097	ARSS	BT-07-14	1017	n/a	1.1	n/a	42	51	0.005	n/a	0
1097	ARSS	BT-07-14	1018	1	1.5	n/a	46	56	0.008	n/a	6
1097	ARSS	BT-07-14	1019	2	1.4	n/a	42	50	0.014	n/a	1
1097	ARSS	BT-07-14	1020	1	1.4	n/a	44	52	0.008	n/a	7
1097	ARSS	BT-07-14	1021	n/a	1.4	n/a	45	54	0.006	n/a	1
1097	ARSS	BT-07-14	1022	2	3.2	n/a	55	66	0.026	n/a	1
1097	ARSS	BT-07-14	1023	1	2.0	n/a	49	58	n/a	n/a	7
1097	ARSS	BT-07-14	1024	2	1.1	n/a	41	50	0.013	n/a	1
1097	ARSS	BT-07-14	1025	2	1.6	n/a	45	54	0.017	n/a	1
1098	ARSS	BT-07-15	1026	1	1.8	n/a	47	56	0.011	n/a	7
1098	ARSS	BT-07-15	1027	2	1.7	n/a	50	60	0.025	n/a	1
1098	HAME	BT-07-15	1028	1	1.7	n/a	44	54	0.013	n/a	11
1098	ARSS	BT-07-15	1029	1	2.9	n/a	55	65	0.126	n/a	7
1098	HAME	BT-07-15	1030	2	2.0	n/a	44	56	0.061	n/a	2
1098	ARSS	BT-07-15	1031	1	1.0	n/a	38	46	0.003	n/a	6
1098	ARSS	BT-07-15	1032	2	0.9	n/a	35	42	0.007	n/a	1
1098	ARSS	BT-07-15	1033	2	1.1	n/a	43	52	0.012	n/a	1
1098	ARSS	BT-07-15	1034	2	1.6	n/a	46	54	0.023	n/a	1
1098	ARSS	BT-07-15	1035	2	2.1	n/a	48	58	0.027	n/a	1
1098	HAME	BT-07-15	1036	2	1.3	n/a	41	50	0.024	n/a	2
1098	HAME	BT-07-15	1037	2	1.0	n/a	36	45	0.014	n/a	1
1098	ARSS	BT-07-15	1038	2	1.3	n/a	41	50	0.016	n/a	1
1098	ARSS	BT-07-15	1039	n/a	0.8	n/a	37	46	0.009	n/a	0
1098	ARSS	BT-07-15	1040	2	2.5	n/a	52	61	0.032	n/a	1
1098	ARSS	BT-07-15	1041	2	1.6	n/a	45	55	0.018	n/a	1
1098	HAME	BT-07-15	1042	2	1.4	n/a	42	50	0.026	n/a	2
1098	ARSS	BT-07-15	1043	1	2.5	n/a	54	63	0.038	n/a	7
1098	ARSS	BT-07-15	1044	1	2.5	n/a	54	64	0.022	n/a	7
1098	ARSS	BT-07-15	1045	2	1.1	n/a	42	50	0.009	n/a	1
1098	HAME	BT-07-15	1046	2	2.2	n/a	47	59	0.058	n/a	2
1098	HAME	BT-07-15	1047	1	1.6	n/a	42	53	0.009	n/a	7
1098	HAME	BT-07-15	1048	1	1.8	n/a	42	52	0.011	n/a	7
1098	ARSS	BT-07-15	1049	1	1.6	n/a	45	54	0.006	n/a	6
1098	ARSS	BT-07-15	1050	1	1.4	n/a	44	54	0.01	n/a	6
1098	ARSS	BT-07-15	1051	1	1.8	n/a	48	58	0.008	n/a	6
1098	ARSS	BT-07-15	1052	n/a	0.6	n/a	34	41	n/a	n/a	0
1098	HAME	BT-07-15	1053	1	1.4	n/a	40	51	0.007	n/a	7
1098	ARSS	BT-07-15	1054	1	1.4	n/a	42	51	0.008	n/a	6

Appendix C. Continued...

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1098	ARSS	BT-07-15	1055	2	1.1	n/a	40	48	0.011	n/a	1
1098	ARSS	BT-07-15	1056	2	1.6	n/a	44	56	0.02	n/a	1
1098	HAME	BT-07-15	1057	2	2.1	n/a	47	58	0.069	n/a	2
1098	ARSS	BT-07-15	1058	1	1.1	n/a	41	50	0.003	n/a	6
1098	ARSS	BT-07-15	1059	1	2.2	n/a	51	60	0.016	n/a	7
1098	ARSS	BT-07-15	1060	2	2.1	n/a	49	57	0.022	n/a	1
1098	ARSS	BT-07-15	1061	2	1.9	n/a	49	58	0.022	n/a	1
1098	ARSS	BT-07-15	1062	2	2.5	n/a	54	63	0.034	n/a	1
1098	ARSS	BT-07-15	1063	2	2.5	n/a	53	64	0.032	n/a	1
1098	HAME	BT-07-15	1064	2	2.2	n/a	47	59	0.065	n/a	2
1098	HAME	BT-07-15	1065	1	1.3	n/a	40	47	0.005	n/a	6
1098	ARSS	BT-07-15	1066	2	1.0	n/a	42	49	0.011	n/a	1
1098	ARSS	BT-07-15	1067	n/a	0.0	n/a	15	19	n/a	n/a	0
1098	THSC	BT-07-15	1068	n/a	0.2	n/a	25	28	n/a	n/a	0
1098	HAME	BT-07-15	1069	n/a	0.2	n/a	21	26	n/a	n/a	0
1098	ARCD	BT-07-15	1070	n/a	0.4	44	n/a	46	n/a	n/a	n/a
1098	ARCD	BT-07-15	1071	n/a	0.3	37	n/a	40	n/a	n/a	n/a
1098	ARCD	BT-07-15	1072	1	3.2	80	n/a	84	0.023	n/a	6
1098	PLEP	BT-07-15	1073	n/a	0.1	n/a	41	43	n/a	n/a	n/a
1098	Stichaeidae sp	BT-07-15	1074-1	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1098	Stichaeidae sp	BT-07-15	1074-2	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1098	Stichaeidae sp	BT-07-15	1074-3	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1098	Stichaeidae sp	BT-07-15	1074-4	n/a	1.1	n/a	n/a	n/a	n/a	n/a	n/a
1098	HAME	BT-07-15	1075	2	2.6	n/a	48	57	0.161	n/a	4/5
1098	ARSS	BT-07-15	1076	2	2.9	n/a	55	67	0.047	n/a	1
1098	ARSS	BT-07-15	1077	2	2.8	n/a	53	64	0.046	n/a	1
1098	ARSS	BT-07-15	1078	2	1.7	n/a	45	54	0.02	n/a	1
1098	ARSS	BT-07-15	1079	1	3.4	n/a	55	66	0.218	n/a	7
1098	ARSS	BT-07-15	1080	2	5.6	n/a	69	82	0.121	n/a	1
1098	HAME	BT-07-15	1081	2	2.2	n/a	49	59	0.061	n/a	2
1098	ARSS	BT-07-15	1082	1	1.1	n/a	40	50	0.003	n/a	6
1098	HAME	BT-07-15	1083	2	2.1	n/a	44	55	0.071	n/a	2
1098	ARSS	BT-07-15	1084	1	3.4	n/a	59	70	0.037	n/a	6
1098	ARSS	BT-07-15	1085	1	2.2	n/a	51	61	0.013	n/a	6
1098	HAME	BT-07-15	1086	2	1.9	n/a	44	55	0.057	n/a	2
1098	ARSS	BT-07-15	1087	1	1.8	n/a	44	55	0.013	n/a	6
1098	ARSS	BT-07-15	1088	2	3.0	n/a	57	68	0.044	n/a	1
1098	ARSS	BT-07-15	1089	2	5.0	n/a	65	77	0.08	n/a	1
1098	ARSS	BT-07-15	1090	1	2.2	n/a	49	60	0.041	n/a	7
1098	ARSS	BT-07-15	1091	1	2.8	n/a	53	63	0.014	n/a	6
1098	ARSS	BT-07-15	1092	2	5.3	n/a	67	79	0.073	n/a	1
1098	HAME	BT-07-15	1093	2	3.3	n/a	51	62	0.176	n/a	2
1098	ARSS	BT-07-15	1094	2	3.6	n/a	59	70	0.042	n/a	1
1098	HAME	BT-07-15	1095	2	3.1	n/a	51	62	0.151	n/a	2
1098	ARSS	BT-07-15	1096	2	3.1	n/a	56	67	0.044	n/a	1
1099	ARSS	BT-07-16	1097	1	1.7	n/a	48	56	0.019	n/a	6

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1099	ARSS	BT-07-16	1098	2	2.0	n/a	47	55	0.03	n/a	1
1099	ARSS	BT-07-16	1099	2	1.6	n/a	47	57	0.016	n/a	1
1099	ARSS	BT-07-16	1100	?	0.4	n/a	32	38	n/a	n/a	0
1099	ARSS	BT-07-16	1101	2	1.9	n/a	50	59	0.027	n/a	1
1099	ARSS	BT-07-16	1102	2	1.5	n/a	45	52	0.021	n/a	1
1099	ARSS	BT-07-16	1103	1	1.4	n/a	42	51	0.01	n/a	6
1099	HAME	BT-07-16	1104	2	2.3	n/a	48	59	0.004	n/a	5
1099	ARSS	BT-07-16	1105	1	1.1	n/a	42	51	0.004	n/a	6
1099	ARSS	BT-07-16	1106	2	2.3	n/a	55	65	0.029	n/a	1
1099	HAME	BT-07-16	1107	2	3.2	n/a	50	62	0.159	n/a	2
1099	ARSS	BT-07-16	1108	2	1.1	n/a	41	49	0.013	n/a	1
1099	ARSS	BT-07-16	1109	2	2.0	n/a	50	60	0.023	n/a	1
1099	HAME	BT-07-16	1110	2	1.7	n/a	45	54	0.047	n/a	2
1099	HAME	BT-07-16	1111	2	1.6	n/a	42	52	0.044	n/a	2
1099	HAME	BT-07-16	1112	2	1.6	n/a	43	52	0.029	n/a	2
1099	ARSS	BT-07-16	1113	1	1.1	n/a	41	50	0.005	n/a	6
1099	Stichaeidae sp	BT-07-16	1114 (n=93)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-1	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-2	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-3	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-4	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-5	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-6	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-7	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-8	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-9	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-10	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-11	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-12	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-13	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-14	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-15	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-16	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-17	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-18	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-19	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1114-20	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	ARCD	BT-07-16	1115	n/a	3.2	78	n/a	81	0.038	n/a	0
1099	ARCD	BT-07-16	1116	1	3.1	79	n/a	81	0.022	n/a	6
1099	ARCD	BT-07-16	1117	n/a	0.4	41	n/a	44	n/a	n/a	n/a
1099	ARCD	BT-07-16	1118	2	6.9	102	n/a	104	0.072	n/a	1
1099	ARCD	BT-07-16	1119	1	3.3	81	n/a	83	0.048	n/a	6
1099	ARCD	BT-07-16	1120	2	1.8	65	n/a	69	0.023	n/a	1
1099	PLEP	BT-07-16	1121	n/a	2.3	n/a	81	85	n/a	n/a	n/a
1099	PLEP	BT-07-16	1122	n/a	0.1	n/a	33	34	n/a	n/a	n/a
1099	PLEP	BT-07-16	1123	n/a	0.9	n/a	57	59	n/a	n/a	n/a

Appendix C. Continued...

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1099	PLEP	BT-07-16	1124	n/a	0.9	n/a	59	61	n/a	n/a	n/a
1099	FSDR	BT-07-16	1125	n/a	2.1	n/a	94	97	n/a	n/a	n/a
1099	ARCD	BT-07-16	1126	2	14.1	124	n/a	127	0.313	n/a	1
1099	ARCD	BT-07-16	1127	1	6.7	101	n/a	104	0.027	n/a	6
1099	ARCD	BT-07-16	1128	1	3.4	83	n/a	85	0.039	n/a	1
1099	ARSS	BT-07-16	1129	2	2.0	n/a	49	58	0.02	n/a	1
1099	ARSS	BT-07-16	1130	1	2.4	n/a	53	62	0.016	n/a	6
1099	ARSS	BT-07-16	1131	2	3.8	n/a	60	71	0.057	n/a	1
1099	ARSS	BT-07-16	1132	2	1.9	n/a	50	59	0.014	n/a	1
1099	Stichaeidae sp	BT-07-16	1133-1	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1133-2	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1133-3	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1133-4	n/a	0.0	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1133-5	n/a	0.0	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1133-6	n/a	0.0	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1133-7	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1133-8	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1099	Stichaeidae sp	BT-07-16	1133-9	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1100	HAME	BT-07-17	1134	1	1.9	n/a	45	55	0.013	n/a	7
1100	RBSC	BT-07-17	1135	1	1.0	n/a	50	58	0.003	n/a	1
1100	ARSS	BT-07-17	1136	1	1.5	n/a	47	56	0.006	n/a	6
1098	RBSC	BT-07-15	1137	1	1.0	n/a	36	45	0.015	n/a	6
1100	HAME	BT-07-17	1138	2	2.7	n/a	54	65	0.094	n/a	2
1100	HAME	BT-07-17	1139	1	2.6	n/a	49	60	0.027	n/a	7
1100	HAME	BT-07-17	1140	1	2.3	n/a	48	59	0.027	n/a	7
1100	RBSC	BT-07-17	1141	n/a	1.1	n/a	52	61	0.005	n/a	0
1100	Icelus sp	BT-07-17	1142	n/a	0.3	n/a	28	36	n/a	n/a	0
1100	HAME	BT-07-17	1143	2	1.7	n/a	44	55	0.039	n/a	2
1100	HAME	BT-07-17	1144	1	2.3	n/a	49	61	0.018	n/a	7
1100	ARSS	BT-07-17	1145	n/a	0.2	n/a	25	29	n/a	n/a	n/a
1100	HAME	BT-07-17	1146	2	2.6	n/a	48	59	0.11	n/a	2
1100	THSC	BT-07-17	1147	n/a	0.4	n/a	36	40	n/a	n/a	0
1100	ARSS	BT-07-17	1148	1	2.3	n/a	51	62	0.147	n/a	7
1100	RBSC	BT-07-17	1149	n/a	0.4	n/a	37	40	n/a	n/a	0
1100	HAME	BT-07-17	1150	2	1.8	n/a	44	54	0.044	n/a	2
1100	ARSS	BT-07-17	1151	n/a	0.3	n/a	29	34	n/a	n/a	0
1100	ARCD	BT-07-17	1152	n/a	2.5	76	n/a	79	n/a	n/a	0
1100	ARCD	BT-07-17	1153	1	2.8	77	n/a	79	0.017	n/a	6
1100	ARCD	BT-07-17	1154	1	1.7	67	n/a	69	0.015	n/a	6
1100	ARCD	BT-07-17	1155	n/a	4.1	92	n/a	93	n/a	n/a	n/a
1100	ARCD	BT-07-17	1156	1	7.0	102	n/a	103	0.106	n/a	7
1100	ARCD	BT-07-17	1157	1	3.2	80	n/a	82	0.010	n/a	6
1100	ARCD	BT-07-17	1158	2	3.4	81	n/a	84	0.029	n/a	1
1100	KPSF	BT-07-17	1159	1	0.9	n/a	44	49	0.015	n/a	6
1100	PLEP	BT-07-17	1160	n/a	6.0	n/a	116	120	n/a	n/a	n/a
1100	Lycodes sp	BT-07-17	1161	n/a	2.2	n/a	80	84	n/a	n/a	n/a

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1100	HAME	BT-07-17	1162	1	2.3	n/a	49	60	0.028	n/a	7
1100	HAME	BT-07-17	1163	2	2.8	n/a	51	62	0.113	n/a	2
1100	HAMEN	BT-07-17	1164	1	3.8	n/a	57	70	0.043	n/a	7
1100	HAME	BT-07-17	1165	1	3.5	n/a	56	69	0.026	n/a	7/10
1100	HAME	BT-07-17	1166	2	3.6	n/a	54	67	0.163	n/a	2
1100	KPSF	BT-07-17	1167	1	3.2	n/a	65	73	0.052	n/a	7
1100	KPSF	BT-07-17	1168	2	8.6	n/a	76	83	0.184	n/a	1
1100	ARCD	BT-07-17	1169	1	5.4	93	n/a	96	0.082	n/a	6
1101	HAME	BT-07-18	1170	2	2.4	n/a	47	58	0.089	n/a	1
1101	HAME	BT-07-18	1171	2	1.7	n/a	44	54	0.042	n/a	2
1101	Icelus sp	BT-07-18	1172	n/a	0.3	n/a	31	37	n/a	n/a	0
1101	THSC	BT-07-18	1173	n/a	0.3	n/a	34	39	n/a	n/a	0
1101	Icelus sp	BT-07-18	1174	n/a	0.2	n/a	30	33	n/a	n/a	0
1101	THSC	BT-07-18	1175	n/a	0.3	n/a	33	37	n/a	n/a	0
1101	ARSS	BT-07-18	1176	n/a	0.1	n/a	21	25	n/a	n/a	0
1101	ARSS	BT-07-18	1177	n/a	0.2	n/a	25	30	n/a	n/a	0
1101	HAME	BT-07-18	1178	2	1.2	n/a	39	49	0.016	n/a	2
1101	ARSS	BT-07-18	1179	1	1.6	n/a	45	54	0.014	n/a	6
1101	HAME	BT-07-18	1180	2	1.4	n/a	39	48	0.028	n/a	2
1101	ARSS	BT-07-18	1181	n/a	1.3	n/a	45	53	0.013	n/a	0
1101	HAME	BT-07-18	1182	2	2.2	n/a	47	59	0.062	n/a	2
1101	HAME	BT-07-18	1183	n/a	3.1	n/a	54	68	0.033	n/a	11
1101	HAME	BT-07-18	1184	1	3.2	n/a	54	66	0.023	n/a	7/10
1101	HAME	BT-07-18	1185	2	1.6	n/a	44	53	0.036	n/a	4
1101	ARSS	BT-07-18	1186	2	1.1	n/a	43	51	0.01	n/a	1
1101	ARSS	BT-07-18	1187	1	1.6	n/a	46	54	0.012	n/a	6
1101	ARSS	BT-07-18	1188	2	2.3	n/a	53	63	0.022	n/a	1
1101	ARSS	BT-07-18	1189	1	1.6	n/a	48	56	0.011	n/a	6
1101	HAME	BT-07-18	1190	2	1.8	n/a	45	55	0.042	n/a	1
1101	ARSS	BT-07-18	1191	2	2.3	n/a	51	62	0.025	n/a	1
1101	ARSS	BT-07-18	1192	2	2.5	n/a	54	64	0.037	n/a	1
1101	ARSS	BT-07-18	1193	2	2.3	n/a	54	62	0.027	n/a	1
1101	ARSS	BT-07-18	1194	2	1.9	n/a	49	58	0.024	n/a	1
1101	ARCD	BT-07-18	1195	n/a	0.2	35	n/a	38	n/a	n/a	n/a
1101	ARCD	BT-07-18	1196	n/a	0.3	38	n/a	40	n/a	n/a	n/a
1101	ARCD	BT-07-18	1197	n/a	0.2	35	n/a	37	n/a	n/a	n/a
1101	ARCD	BT-07-18	1198	n/a	0.3	39	n/a	41	n/a	n/a	n/a
1101	ARCD	BT-07-18	1199	n/a	0.4	43	n/a	44	n/a	n/a	n/a
1101	ARCD	BT-07-18	1200	n/a	0.4	42	n/a	44	n/a	n/a	n/a
1101	ARCD	BT-07-18	1201	1	5.2	92	n/a	96	0.034	n/a	6
1101	ARCD	BT-07-18	1202	2	4.5	93	n/a	96	0.048	n/a	6
1101	ARCD	BT-07-18	1203	n/a	4.2	88	n/a	90	0.025	n/a	0
1101	ARCD	BT-07-18	1204	1	2.9	81	n/a	83	0.045	n/a	6
1101	ARCD	BT-07-18	1205	1	4.1	92	n/a	95	0.027	n/a	6
1101	ARCD	BT-07-18	1206	1	5.4	96	n/a	98	0.133	n/a	7
1101	ARCD	BT-07-18	1207	n/a	3.2	82	n/a	85	n/a	n/a	0

Appendix C. Continued...

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1101	PLEP	BT-07-18	1208	n/a	0.2	n/a	40	41	n/a	n/a	n/a
1101	TSEP	BT-07-18	1209	n/a	0.1	n/a	37	38	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210 (n=64)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-1	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-2	n/a	0.2	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-3	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-4	n/a	0.0	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-5	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-6	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-7	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-8	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-9	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-10	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-11	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-12	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-13	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-14	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-15	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-16	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-17	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-18	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-19	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	Stichaeidae sp	BT-07-18	1210-20	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
1101	ARSS	BT-07-18	1211	2	4.1	n/a	63	76	0.092	n/a	1
1101	HAME	BT-07-18	1212	2	2.5	n/a	50	61	0.116	n/a	2
1101	HAME	BT-07-18	1213	2	2.3	n/a	48	60	0.058	n/a	2
1101	HAME	BT-07-18	1214	1	3.3	n/a	54	65	0.028	n/a	7
1101	HAME	BT-07-18	1215	n/a	0.4	n/a	29	36	n/a	n/a	0
1101	ARCD	BT-07-18	1216	n/a	2.7	76	n/a	80	0.007	n/a	0
1101	KPSF	BT-07-18	1217	2	8.8	n/a	77	89	0.185	n/a	1
1102	ARCD	BT-07-19	1218	n/a	2.8	80	n/a	83	n/a	n/a	0
1102	ARCD	BT-07-19	1219	n/a	0.5	46	n/a	48	n/a	n/a	n/a
1102	ARCD	BT-07-19	1220	n/a	0.3	39	n/a	40	n/a	n/a	n/a
1102	ARCD	BT-07-19	1221	n/a	0.1	28	n/a	30	n/a	n/a	n/a
1102	ARCD	BT-07-19	1222	n/a	2.1	76	n/a	78	0.006	n/a	0
1102	Icelus sp	BT-07-19	1223	n/a	0.2	n/a	28	33	n/a	n/a	0
1102	ARSS	BT-07-19	1224	2	2.8	n/a	56	66	0.036	n/a	1
1102	PLEP	BT-07-19	1225	n/a	0.1	n/a	30	32	n/a	n/a	n/a
1102	PLEP	BT-07-19	1226	n/a	0.1	n/a	31	33	n/a	n/a	n/a
1102	PLEP	BT-07-19	1227	n/a	0.1	n/a	36	36	n/a	n/a	n/a
1102	PLEP	BT-07-19	1228	n/a	0.1	n/a	31	32	n/a	n/a	n/a
1102	PLEP	BT-07-19	1229	n/a	0.1	n/a	31	32	n/a	n/a	n/a
1102	PLEP	BT-07-19	1230	n/a	0.1	n/a	31	32	n/a	n/a	n/a
1102	PLEP	BT-07-19	1231	n/a	0.1	n/a	42	43	n/a	n/a	n/a
1102	PLEP	BT-07-19	1232	n/a	0.6	n/a	59	61	n/a	n/a	n/a
1102	PLEP	BT-07-19	1233	n/a	0.5	n/a	55	57	n/a	n/a	n/a

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1102	PLEP	BT-07-19	1234	n/a	2.8	n/a	86	90	n/a	n/a	n/a
1102	HAME	BT-07-19	1235	2	3.0	n/a	51	62	0.189	n/a	2
1104	ARSS	BT-07-21	1236	2	1.9	n/a	48	57	0.019	n/a	1
1104	STEB	BT-07-21	1237	n/a	0.4	n/a	51	57	n/a	n/a	n/a
1104	THSC	BT-07-21	1238	n/a	0.2	n/a	28	33	n/a	n/a	0
1104	ARSS	BT-07-21	1239	1	2.2	n/a	50	60	0.01	n/a	6
1105	ARCD	BT-07-22	1240	n/a	3.6*	89	n/a	92	0.014	n/a	0
1105	ARCD	BT-07-22	1241	2	2.3*	75	n/a	77	0.024	n/a	1
1105	ARCD	BT-07-22	1242	1	2.5*	87	n/a	89	0.038	n/a	6
1105	STEB	BT-07-22	1243	n/a	0.2	n/a	46	51	n/a	n/a	n/a
1106	ARCD	BT-07-23	1244	2	3.5*	87	n/a	91	0.041	n/a	1
1106	ARCD	BT-07-23	1245	n/a	2.9*	79	n/a	83	n/a	n/a	0
1106	PLEP	BT-07-23	1246	n/a	0.7	n/a	61	63	n/a	n/a	n/a
1106	PLEP	BT-07-23	1247	n/a	2.8	n/a	92	94	n/a	n/a	n/a
1106	PLEP	BT-07-23	1248	n/a	1.4	n/a	73	76	n/a	n/a	n/a
1106	STEB	BT-07-23	1249	n/a	0.5	n/a	55	61	n/a	n/a	n/a
1106	STEB	BT-07-23	1250	n/a	0.5	n/a	57	64	n/a	n/a	n/a
1106	SPSC	BT-07-23	1251	2	1.0	n/a	42	50	0.013	n/a	1
1106	GLSS	BT-07-23	1252	n/a	1.6	n/a	62	70	n/a	n/a	?
1106	ARCD	BT-07-23	1253	2	3.5	85	n/a	89	0.041	n/a	1
1106	ARCD	BT-07-23	1254	1	6.0	95	n/a	99	0.177	n/a	7
1106	ARSS	BT-07-23	1255	1	2.1	n/a	50	60	0.007	n/a	7
1107	HAME	BT-07-24	1256	n/a	0.6	n/a	33	40	n/a	n/a	0
1107	ARSS	BT-07-24	1257	2	1.3	n/a	45	54	0.008	n/a	1
1107	HAME	BT-07-24	1258	n/a	0.7	n/a	35	43	0.002	n/a	0
1107	ARSS	BT-07-24	1259	2	2.3	n/a	56	66	0.021	n/a	1
1107	HAME	BT-07-24	1260	n/a	0.4	n/a	29	36	n/a	n/a	0
1107	HAME	BT-07-24	1261	2	2.0	n/a	46	57	0.066	n/a	1
1107	HAME	BT-07-24	1262	1	1.5	n/a	42	52	0.013	n/a	7
1107	ARSS	BT-07-24	1263	n/a	1.1	n/a	42	50	0.003	n/a	0
1107	ARSS	BT-07-24	1264	1	1.9	n/a	50	60	0.012	n/a	7
1107	ARSS	BT-07-24	1265	1	1.2	n/a	46	55	0.006	n/a	6
1107	ARSS	BT-07-24	1266	1	1.7	n/a	50	60	0.012	n/a	6
1107	ARSS	BT-07-24	1267	1	1.1	n/a	44	52	0.004	n/a	6
1107	ARSS	BT-07-24	1268	1	1.7	n/a	50	59	0.013	n/a	7
1107	HAME	BT-07-24	1269	2	1.1	n/a	39	48	0.018	n/a	1
1107	HAME	BT-07-24	1270	n/a	0.6	n/a	32	39	0.002	n/a	0
1107	ARSS	BT-07-24	1271	1	1.8	n/a	50	59	0.007	n/a	6
1107	RBSC	BT-07-24	1272	2	1.1	n/a	53	62	0.004	n/a	1
1107	ARSS	BT-07-24	1273	1	1.7	n/a	49	59	0.016	n/a	6
1107	HAME	BT-07-24	1274	1	1.9	n/a	47	57	0.014	n/a	7
1107	ARSS	BT-07-24	1275	2	2.8	n/a	57	67	0.038	n/a	1
1107	ARSS	BT-07-24	1276	2	2.2	n/a	55	65	0.027	n/a	1
1107	ARSS	BT-07-24	1277	1	1.4	n/a	49	58	0.003	n/a	6
1107	ARSS	BT-07-24	1278	1	3.1	n/a	56	66	0.17	n/a	7
1107	HAME	BT-07-24	1279	2	1.0	n/a	39	48	0.008	n/a	1

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1107	ARSS	BT-07-24	1280	1	n/a	51	62	41	0.009	n/a	6
1107	ARSS	BT-07-24	1281	1	n/a	51	61	38	0.017	n/a	6
1107	ARSS	BT-07-24	1282	1	n/a	49	58	n/a	0.01	n/a	6
1107	HAME	BT-07-24	1283	2	n/a	44	54	n/a	0.064	n/a	1
1107	RBSC	BT-07-24	1284	1	n/a	61	69	n/a	0.005	n/a	n/a
1107	ARCD	BT-07-24	1285	1	97	n/a	99	n/a	0.056	n/a	6
1107	ARCD	BT-07-24	1286	n/a	92	n/a	95	n/a	0.041	n/a	0
1107	ARCD	BT-07-24	1287	1	92	n/a	94	n/a	0.046	n/a	6
1107	ARCD	BT-07-24	1288	2	88	n/a	90	n/a	0.022	n/a	1
1107	ARCD	BT-07-24	1289	n/a	84	n/a	87	n/a	n/a	n/a	n/a
1107	PLEP	BT-07-24	1290	n/a	n/a	40	42	n/a	n/a	n/a	n/a
1107	PLEP	BT-07-24	1291	n/a	n/a	35	37	n/a	n/a	n/a	n/a
1107	PLEP	BT-07-24	1292	n/a	n/a	34	35	n/a	n/a	n/a	n/a
1107	Liparidae sp.	BT-07-24	1293	n/a	n/a	24	25	n/a	n/a	n/a	n/a
1107	ARCD	BT-07-24	1294	1	87	n/a	89	n/a	0.023	n/a	6
1107	ARCD	BT-07-24	1295	2	112	n/a	116	n/a	0.132	n/a	1
1107	ARCD	BT-07-24	1296	1	86	n/a	88	n/a	0.050	n/a	7
1107	ARSS	BT-07-24	1297	1	n/a	51	61	n/a	0.012	n/a	6
1107	HAME	BT-07-24	1298	1	n/a	50	62	n/a	0.017	n/a	7
1107	ARSS	BT-07-24	1299	2	n/a	61	72	n/a	0.049	n/a	1
1107	ARSS	BT-07-24	1300	1	n/a	64	75	n/a	0.02	n/a	7
1107	HAME	BT-07-24	1301	2	n/a	58	70	n/a	0.173	n/a	2
1107	HAME	BT-07-24	1302	2	n/a	51	62	n/a	0.204	n/a	2/3
1107	Stichaeidae sp	BT-07-24	1303	n/a	n/a	n/a	n/a	76	n/a	n/a	n/a
1107	ARCD	BT-07-24	1304	n/a	n/a	n/a	22	61	n/a	n/a	0
1107	Liparidae sp.	BT-07-24	1305	n/a	n/a	n/a	22	60	n/a	n/a	n/a
1108	ARCD	BT-07-25	1306	n/a	93	n/a	97	65	n/a	n/a	0
1108	ARCD	BT-07-25	1307	n/a	139	n/a	148	36	n/a	n/a	n/a
1108	ARAF	BT-07-25	1308	n/a	n/a	44	51	80	n/a	n/a	n/a
1108	ARAF	BT-07-25	1309	n/a	n/a	42	50	89	n/a	n/a	n/a
1108	ARAF	BT-07-25	1310	n/a	n/a	45	52	83	n/a	n/a	n/a
1108	ARAF	BT-07-25	1311	n/a	n/a	46	52	48	n/a	n/a	n/a
1108	ARAF	BT-07-25	1312	n/a	n/a	46	53	40	n/a	n/a	n/a
1108	ARAF	BT-07-25	1313	n/a	n/a	39	45	30	n/a	n/a	n/a
1108	ARAF	BT-07-25	1314	n/a	n/a	45	52	78	n/a	n/a	n/a
1108	ARAF	BT-07-25	1315	n/a	n/a	36	43	33	n/a	n/a	n/a
1108	ARAF	BT-07-25	1316	n/a	n/a	46	54	66	n/a	n/a	n/a
1108	ARAF	BT-07-25	1317	n/a	n/a	44	52	32	n/a	n/a	n/a
1108	ARAF	BT-07-25	1318	n/a	n/a	42	49	33	n/a	n/a	n/a
1108	ARAF	BT-07-25	1319	n/a	n/a	37	43	36	n/a	n/a	n/a
1108	ARAF	BT-07-25	1320	n/a	n/a	40	46	32	n/a	n/a	n/a
1108	ARAF	BT-07-25	1321	n/a	n/a	41	47	32	n/a	n/a	n/a
1108	ARAF	BT-07-25	1322	n/a	n/a	47	55	32	n/a	n/a	n/a
1108	ARAF	BT-07-25	1323	n/a	n/a	41	47	43	n/a	n/a	n/a
1108	ARAF	BT-07-25	1324	n/a	n/a	41	47	61	n/a	n/a	n/a
1108	ARAF	BT-07-25	1325	n/a	n/a	51	58	57	n/a	n/a	n/a

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1108	ARAF	BT-07-25	1326	n/a	n/a	n/a	47	53	n/a	n/a	n/a
1108	ARAF	BT-07-25	1327	n/a	n/a	n/a	43	51	n/a	n/a	n/a
1108	ARAF	BT-07-25	1328	n/a	n/a	n/a	42	49	n/a	n/a	n/a
1108	ARAF	BT-07-25	1329	n/a	n/a	n/a	43	49	n/a	n/a	n/a
1108	ARAF	BT-07-25	1330	n/a	n/a	n/a	43	50	n/a	n/a	n/a
1108	ARAF	BT-07-25	1331	n/a	n/a	n/a	45	52	n/a	n/a	n/a
1108	ARAF	BT-07-25	1332	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1108	ARAF	BT-07-25	1333	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1108	ARAF	BT-07-25	1334	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1108	ARAF	BT-07-25	1335	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1108	ARAF	BT-07-25	1336	n/a	n/a	n/a	49	55	n/a	n/a	n/a
1108	ARAF	BT-07-25	1337	n/a	n/a	n/a	41	47	n/a	n/a	n/a
1108	ARAF	BT-07-25	1338	n/a	n/a	n/a	47	54	n/a	n/a	n/a
1108	ARAF	BT-07-25	1339	n/a	n/a	n/a	45	52	n/a	n/a	n/a
1108	ARAF	BT-07-25	1340	n/a	n/a	n/a	43	50	n/a	n/a	n/a
1111	ARCD	BT-07-28	1341	n/a	4.0*	96	n/a	102	n/a	n/a	n/a
1111	ARCD	BT-07-28	1342	1	4.9*	95	n/a	98	0.137	n/a	7
1109	ARCD	BT-07-26	1343	1	9.0*	115	n/a	119	0.224	n/a	7
1109	ARCD	BT-07-26	1344	1	5.3*	98	n/a	100	0.112	n/a	7
1108	ARAF	BT-07-25	1345	n/a	n/a	n/a	43	49	n/a	n/a	n/a
1108	ARAF	BT-07-25	1346	n/a	n/a	n/a	40	45	n/a	n/a	n/a
1108	ARAF	BT-07-25	1347	n/a	n/a	n/a	42	49	n/a	n/a	n/a
1108	ARAF	BT-07-25	1348	n/a	n/a	n/a	41	48	n/a	n/a	n/a
1108	ARAF	BT-07-25	1349	n/a	n/a	n/a	41	48	n/a	n/a	n/a
1108	ARAF	BT-07-25	1350	n/a	n/a	n/a	47	54	n/a	n/a	n/a
1108	ARAF	BT-07-25	1351	n/a	n/a	n/a	44	54	n/a	n/a	n/a
1108	ARAF	BT-07-25	1352	n/a	n/a	n/a	41	46	n/a	n/a	n/a
1108	ARAF	BT-07-25	1353	n/a	n/a	n/a	43	49	n/a	n/a	n/a
1108	ARAF	BT-07-25	1354	n/a	n/a	n/a	41	46	n/a	n/a	n/a
1108	ARAF	BT-07-25	1355	n/a	n/a	n/a	38	44	n/a	n/a	n/a
1108	ARAF	BT-07-25	1356	n/a	n/a	n/a	43	50	n/a	n/a	n/a
1108	ARAF	BT-07-25	1357	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1108	ARAF	BT-07-25	1358	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1108	ARAF	BT-07-25	1359	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1108	ARAF	BT-07-25	1360	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1108	ARAF	BT-07-25	1361	n/a	n/a	n/a	41	46	n/a	n/a	n/a
1108	ARAF	BT-07-25	1362	n/a	n/a	n/a	48	55	n/a	n/a	n/a
1108	ARAF	BT-07-25	1363	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1108	ARAF	BT-07-25	1364	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1108	ARAF	BT-07-25	1365	n/a	n/a	n/a	38	45	n/a	n/a	n/a
1108	ARAF	BT-07-25	1366	n/a	n/a	n/a	47	54	n/a	n/a	n/a
1108	ARAF	BT-07-25	1367	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1108	ARAF	BT-07-25	1368	n/a	n/a	n/a	43	49	n/a	n/a	n/a
1108	ARAF	BT-07-25	1369	n/a	n/a	n/a	41	49	n/a	n/a	n/a
1108	ARAF	BT-07-25	1370	n/a	n/a	n/a	46	52	n/a	n/a	n/a
1108	ARAF	BT-07-25	1371	n/a	n/a	n/a	45	52	n/a	n/a	n/a

Appendix C. Continued...

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1108	ARAF	BT-07-25	1372	n/a	n/a	n/a	46	52	n/a	n/a	n/a
1108	ARAF	BT-07-25	1373	n/a	n/a	n/a	43	49	n/a	n/a	n/a
1108	ARAF	BT-07-25	1374	n/a	n/a	n/a	46	54	n/a	n/a	n/a
1108	RBSC	BT-07-25	1375	1	1.6	n/a	57	65	0.006	n/a	6
1108	RBSC	BT-07-25	1376	2	1.6	n/a	56	64	0.007	n/a	1
1108	RBSC	BT-07-25	1377	n/a	1.7	n/a	60	69	0.004	n/a	0
1108	RBSC	BT-07-25	1378	2	2.2	n/a	63	72	0.027	n/a	1
1108	RBSC	BT-07-25	1379	1	7.1	n/a	88	100	0.281	n/a	7
1108	THSC	BT-07-25	1380	n/a	0.7	n/a	36	44	0.002	n/a	0
1108	RBSC	BT-07-25	1381	1	2.0	n/a	63	72	0.007	n/a	6
1108	RBSC	BT-07-25	1382	2	1.4	n/a	53	62	0.005	n/a	1
1108	ARSS	BT-07-25	1383	2	2.4	n/a	51	60	0.029	n/a	1
1108	ARSS	BT-07-25	1384	1	2.2	n/a	51	62	0.009	n/a	6
1108	SPSC	BT-07-25	1385	2	2.1	n/a	50	61	0.044	n/a	1
1108	RBSC	BT-07-25	1386	n/a	1.7	n/a	57	65	0.006	n/a	0
1108	THSC	BT-07-25	1387	1	0.7	n/a	37	44	n/a	n/a	6
1108	SPSC	BT-07-25	1388	1	1.4	n/a	45	52	0.041	n/a	7
1108	RBSC	BT-07-25	1389	1	2.1	n/a	61	70	0.009	n/a	6
1108	THSC	BT-07-25	1390	1	1.9	n/a	49	58	0.025	n/a	7
1108	SPSC	BT-07-25	1391	2	1.6	n/a	46	55	0.02	n/a	1
1108	SPSC	BT-07-25	1392	1	1.5	n/a	48	57	0.029	n/a	7
1108	RBSC	BT-07-25	1393	1	1.6	n/a	58	67	0.006	n/a	6
1108	THSC	BT-07-25	1394	1	1.6	n/a	47	55	0.01	n/a	7
1108	SPSC	BT-07-25	1395	1	0.7	n/a	37	44	0.003	n/a	1
1108	RBSC	BT-07-25	1396	2	6.3	n/a	81	93	0.942	n/a	2
1108	RBSC	BT-07-25	1397	2	7.4	n/a	92	105	0.914	n/a	2
1108	RBSC	BT-07-25	1398	1	2.0	n/a	59	68	0.008	n/a	6
1108	RBSC	BT-07-25	1399	1	2.9	n/a	69	79	0.042	n/a	7
1108	RBSC	BT-07-25	1400	1	6.8	n/a	94	107	2.62	n/a	7
1108	RBSC	BT-07-25	1401	2	10.1	n/a	95	109	n/a	n/a	3
1108	RBSC	BT-07-25	1402	1	2.3	n/a	65	75	0.01	n/a	6
1108	RBSC	BT-07-25	1403	2	4.8	n/a	77	87	0.618	n/a	2/3
1108	ARSS	BT-07-25	1404	2	3.3	n/a	57	67	0.042	n/a	1
1108	SPSC	BT-07-25	1405	2	2.7	n/a	54	64	0.154	n/a	1
1108	RBSC	BT-07-25	1406	1	2.0	n/a	59	69	0.009	n/a	6
1108	RBSC	BT-07-25	1407	n/a	5.7	n/a	85	97	n/a	n/a	n/a
1108	RBSC	BT-07-25	1408	1	4.8	n/a	85	97	0.178	n/a	7
1108	RBSC	BT-07-25	1409	2	7.1	n/a	85	98	1.247	n/a	2
1108	RBSC	BT-07-25	1410	1	6.7	n/a	88	102	0.3	n/a	7
1108	RBSC	BT-07-25	1411	n/a	5.5	n/a	80	93	n/a	n/a	n/a
1108	RBSC	BT-07-25	1412	n/a	4.7	n/a	79	90	n/a	n/a	n/a
1108	ARSS	BT-07-25	1413	2	5.3	n/a	67	78	0.112	n/a	1
1108	RBSC	BT-07-25	1414	2	9.5	n/a	95	108	1.345	n/a	2
1108	ARSS	BT-07-25	1415	2	4.1	n/a	60	72	0.027	n/a	1
1108	ARSS	BT-07-25	1416	2	9.7	n/a	82	96	0.358	n/a	1/2
1108	RBSC	BT-07-25	1417	2	4.4	n/a	80	91	0.09	n/a	1

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1108	RBSC	BT-07-25	1418	2	2.7	n/a	68	76	0.034	n/a	1
1108	RBSC	BT-07-25	1419	2	2.7	n/a	66	76	0.021	n/a	1
1108	RBSC	BT-07-25	1420	1	3.3	n/a	68	79	0.047	n/a	7
1108	ARSS	BT-07-25	1421	2	2.8	n/a	53	63	0.046	n/a	1
1108	SPSC	BT-07-25	1422	2	2.1	n/a	52	62	0.032	n/a	1
1108	RBSC	BT-07-25	1423	2	7.6	n/a	81	92	1.365	n/a	2
1108	RBSC	BT-07-25	1424	2	7.8	n/a	87	100	1.336	n/a	2
1108	RBSC	BT-07-25	1425	2	7.2	n/a	84	97	1.241	n/a	2
1108	RBSC	BT-07-25	1426	2	5.1	n/a	77	90	0.471	n/a	2/3
1108	RBSC	BT-07-25	1427	2	12.0	n/a	106	121	0.521	n/a	2
1108	RBSC	BT-07-25	1428	n/a	7.7	n/a	91	103	n/a	n/a	n/a
1108	RBSC	BT-07-25	1429	n/a	9.7	n/a	96	108	n/a	n/a	n/a
1108	RBSC	BT-07-25	1430	2	9.0	n/a	94	108	n/a	n/a	n/a
1108	RBSC	BT-07-25	1431	2	7.8	n/a	87	100	n/a	n/a	n/a
1108	RBSC	BT-07-25	1432	2	5.4	n/a	89	104	0.792	n/a	2
1108	RBSC	BT-07-25	1433	2	6.1	n/a	85	97	0.957	n/a	2
1108	RBSC	BT-07-25	1434	2	5.9	n/a	84	97	0.809	n/a	2
1108	RBSC	BT-07-25	1435	2	6.8	n/a	87	99	0.99	n/a	2
1108	RBSC	BT-07-25	1436	2	5.4	n/a	81	93	0.556	n/a	2
1108	RBSC	BT-07-25	1437	1	4.9	n/a	77	88	0.213	n/a	7
1108	RBSC	BT-07-25	1438	2	6.4	n/a	85	97	1.033	n/a	2
1108	GLSS	BT-07-25	1439	2	3.1	n/a	66	75	0.034	n/a	1
1108	GLSS	BT-07-25	1440	n/a	6.8	n/a	76	88	n/a	n/a	n/a
1108	GLSS	BT-07-25	1441	1	4.5	n/a	74	83	0.073	n/a	7
1108	GLSS	BT-07-25	1442	1	5.8	n/a	80	90	0.11	n/a	7
1108	GLSS	BT-07-25	1443	1	1.7	n/a	53	58	0.024	n/a	6
1108	GLSS	BT-07-25	1444	1	3.2	n/a	72	81	0.025	n/a	7
1108	PLEP	BT-07-25	1445	n/a	6.9	n/a	111	115	n/a	n/a	n/a
1108	PLEP	BT-07-25	1446	n/a	2.7	n/a	86	90	n/a	n/a	n/a
1108	PLEP	BT-07-25	1447	n/a	4.3	n/a	95	99	n/a	n/a	n/a
1108	PLEP	BT-07-25	1448	n/a	3.4	n/a	87	92	n/a	n/a	n/a
1108	PLEP	BT-07-25	1449	n/a	5.7	n/a	105	109	n/a	n/a	n/a
1108	PLEP	BT-07-25	1450	n/a	17.0	n/a	144	148	n/a	n/a	n/a
1108	PLEP	BT-07-25	1451	n/a	5.4	n/a	111	114	n/a	n/a	n/a
1108	PLEP	BT-07-25	1452	n/a	2.6	n/a	86	88	n/a	n/a	n/a
1108	PLEP	BT-07-25	1453	n/a	11.6	n/a	132	135	n/a	n/a	n/a
1108	PLEP	BT-07-25	1454	n/a	11.5	n/a	132	136	n/a	n/a	n/a
1108	PLEP	BT-07-25	1455	n/a	7.4	n/a	111	114	n/a	n/a	n/a
1109	ARAF	BT-07-26	1456	n/a	n/a	n/a	35	40	n/a	n/a	n/a
1109	ARAF	BT-07-26	1457	n/a	n/a	n/a	39	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1458	n/a	n/a	n/a	41	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1459	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1460	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1461	n/a	n/a	n/a	36	42	n/a	n/a	n/a
1109	ARAF	BT-07-26	1462	n/a	n/a	n/a	39	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1463	n/a	n/a	n/a	42	49	n/a	n/a	n/a

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1109	ARAF	BT-07-26	1464	n/a	n/a	n/a	40	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1465	n/a	n/a	n/a	39	44	n/a	n/a	n/a
1109	ARAF	BT-07-26	1466	n/a	n/a	n/a	39	44	n/a	n/a	n/a
1109	ARAF	BT-07-26	1467	n/a	n/a	n/a	41	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1468	n/a	n/a	n/a	42	49	n/a	n/a	n/a
1109	ARAF	BT-07-26	1469	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1470	n/a	n/a	n/a	43	49	n/a	n/a	n/a
1109	ARAF	BT-07-26	1471	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1472	n/a	n/a	n/a	45	52	n/a	n/a	n/a
1109	ARAF	BT-07-26	1473	n/a	n/a	n/a	42	49	n/a	n/a	n/a
1109	ARAF	BT-07-26	1474	n/a	n/a	n/a	42	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1475	n/a	n/a	n/a	46	53	n/a	n/a	n/a
1109	ARAF	BT-07-26	1476	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1477	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1478	n/a	n/a	n/a	47	52	n/a	n/a	n/a
1109	ARAF	BT-07-26	1479	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1109	ARAF	BT-07-26	1480	n/a	n/a	n/a	41	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1481	n/a	n/a	n/a	36	42	n/a	n/a	n/a
1109	ARAF	BT-07-26	1482	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1483	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1484	n/a	n/a	n/a	44	52	n/a	n/a	n/a
1109	ARAF	BT-07-26	1485	n/a	n/a	n/a	38	43	n/a	n/a	n/a
1109	ARAF	BT-07-26	1486	n/a	n/a	n/a	40	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1487	n/a	n/a	n/a	41	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1488	n/a	n/a	n/a	38	44	n/a	n/a	n/a
1109	ARAF	BT-07-26	1489	n/a	n/a	n/a	44	52	n/a	n/a	n/a
1109	ARAF	BT-07-26	1490	n/a	n/a	n/a	37	43	n/a	n/a	n/a
1109	ARAF	BT-07-26	1491	n/a	n/a	n/a	43	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1492	n/a	n/a	n/a	43	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1493	n/a	n/a	n/a	38	44	n/a	n/a	n/a
1109	ARAF	BT-07-26	1494	n/a	n/a	n/a	40	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1495	n/a	n/a	n/a	35	41	n/a	n/a	n/a
1109	ARAF	BT-07-26	1496	n/a	n/a	n/a	42	49	n/a	n/a	n/a
1109	ARAF	BT-07-26	1497	n/a	n/a	n/a	41	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1498	n/a	n/a	n/a	39	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1499	n/a	n/a	n/a	34	40	n/a	n/a	n/a
1109	ARAF	BT-07-26	1500	n/a	n/a	n/a	37	42	n/a	n/a	n/a
1109	ARAF	BT-07-26	1501	n/a	n/a	n/a	46	54	n/a	n/a	n/a
1109	ARAF	BT-07-26	1502	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1503	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1109	ARAF	BT-07-26	1504	n/a	n/a	n/a	48	55	n/a	n/a	n/a
1109	ARAF	BT-07-26	1505	n/a	n/a	n/a	38	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1506	n/a	n/a	n/a	32	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1507	n/a	n/a	n/a	37	42	n/a	n/a	n/a
1109	ARAF	BT-07-26	1508	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1509	n/a	n/a	n/a	46	52	n/a	n/a	n/a

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1109	ARAF	BT-07-26	1510	n/a	n/a	n/a	43	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1511	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1512	n/a	n/a	n/a	45	51	n/a	n/a	n/a
1109	ARAF	BT-07-26	1513	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1514	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1515	n/a	n/a	n/a	43	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1516	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1517	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1518	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1519	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1520	n/a	n/a	n/a	42	49	n/a	n/a	n/a
1109	ARAF	BT-07-26	1521	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1522	n/a	n/a	n/a	36	42	n/a	n/a	n/a
1109	ARAF	BT-07-26	1523	n/a	n/a	n/a	38	43	n/a	n/a	n/a
1109	ARAF	BT-07-26	1524	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1525	n/a	n/a	n/a	43	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1526	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1527	n/a	n/a	n/a	42	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1528	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1109	ARAF	BT-07-26	1529	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1530	n/a	n/a	n/a	46	54	n/a	n/a	n/a
1109	ARAF	BT-07-26	1531	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1532	n/a	n/a	n/a	40	44	n/a	n/a	n/a
1109	ARAF	BT-07-26	1533	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1534	n/a	n/a	n/a	45	51	n/a	n/a	n/a
1109	ARAF	BT-07-26	1535	n/a	n/a	n/a	35	39	n/a	n/a	n/a
1109	ARAF	BT-07-26	1536	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1537	n/a	n/a	n/a	35	39	n/a	n/a	n/a
1109	ARAF	BT-07-26	1538	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1539	n/a	n/a	n/a	41	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1540	n/a	n/a	n/a	41	48	n/a	n/a	n/a
1109	ARAF	BT-07-26	1541	n/a	n/a	n/a	46	54	n/a	n/a	n/a
1109	ARAF	BT-07-26	1542	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1543	n/a	n/a	n/a	41	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1544	n/a	n/a	n/a	41	46	n/a	n/a	n/a
1109	ARAF	BT-07-26	1545	n/a	n/a	n/a	51	58	n/a	n/a	n/a
1109	ARAF	BT-07-26	1546	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1547	n/a	n/a	n/a	39	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1548	n/a	n/a	n/a	40	47	n/a	n/a	n/a
1109	ARAF	BT-07-26	1549	n/a	n/a	n/a	46	52	n/a	n/a	n/a
1109	ARAF	BT-07-26	1550	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1551	n/a	n/a	n/a	43	50	n/a	n/a	n/a
1109	ARAF	BT-07-26	1552	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1109	ARAF	BT-07-26	1553	n/a	n/a	n/a	44	51	n/a	n/a	n/a
1109	ARAF	BT-07-26	1554	n/a	n/a	n/a	43	51	n/a	n/a	n/a
1109	ARAF	BT-07-26	1555	n/a	n/a	n/a	43	50	n/a	n/a	n/a

Appendix C. Continued...

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1109	ARAF	BT-07-26	1556	n/a	n/a	n/a	37	43	n/a	n/a	n/a
1109	ARAF	BT-07-26	1557	n/a	n/a	n/a	46	53	n/a	n/a	n/a
1109	ARAF	BT-07-26	1558	n/a	n/a	n/a	39	44	n/a	n/a	n/a
1109	ARAF	BT-07-26	1559	n/a	n/a	n/a	37	43	n/a	n/a	n/a
1109	ARAF	BT-07-26	1560	n/a	n/a	n/a	37	43	n/a	n/a	n/a
1109	ARAF	BT-07-26	1561	n/a	n/a	n/a	42	52	n/a	n/a	n/a
1109	ARAF	BT-07-26	1562	n/a	n/a	n/a	37	43	n/a	n/a	n/a
1109	ARAF	BT-07-26	1563	n/a	n/a	n/a	36	41	n/a	n/a	n/a
1109	ARCD	BT-07-26	1564	n/a	4.4	91	n/a	93	n/a	n/a	0
1109	GLSS	BT-07-26	1565	n/a	11.0	n/a	84	96	n/a	n/a	n/a
1109	PLEP	BT-07-26	1566	n/a	0.1	n/a	35	37	n/a	n/a	n/a
1109	SPSC	BT-07-26	1567	2	3.7	n/a	61	71	0.352	n/a	2
1109	SPSC	BT-07-26	1568	2	2.1	n/a	49	59	0.041	n/a	1
1109	ARSS	BT-07-26	1569	n/a	5.8	n/a	67	80	n/a	n/a	n/a
1109	SPSC	BT-07-26	1570	n/a	0.8	n/a	38	45	n/a	n/a	n/a
1109	RBSC	BT-07-26	1571	1	3.5	n/a	70	81	0.028	n/a	6
1109	RBSC	BT-07-26	1572	1	4.6	n/a	77	89	0.11	n/a	7
1109	RBSC	BT-07-26	1573	2	2.9	n/a	66	77	0.026	n/a	1
1109	RBSC	BT-07-26	1574	2	5.4	n/a	75	87	0.664	n/a	2
1109	RBSC	BT-07-26	1575	1	5.1	n/a	83	97	0.224	n/a	7
1109	RBSC	BT-07-26	1576	2	2.6	n/a	68	75	0.029	n/a	1
1109	RBSC	BT-07-26	1577	2	5.8	n/a	89	102	0.805	n/a	2
1109	SPSC	BT-07-26	1578	2	2.6	n/a	55	64	0.063	n/a	1
1109	SPSC	BT-07-26	1579	2	0.9	n/a	38	46	0.006	n/a	1
1109	RBSC	BT-07-26	1580	2	1.2	n/a	53	61	0.005	n/a	1
1109	SPSC	BT-07-26	1581	2	2.3	n/a	52	59	0.042	n/a	1
1109	RBSC	BT-07-26	1582	2	3.4	n/a	71	81	0.026	n/a	1
1109	RBSC	BT-07-26	1583	1	6.9	n/a	92	105	0.304	n/a	7
1109	RBSC	BT-07-26	1584	1	6.0	n/a	83	96	0.24	n/a	7
1109	RBSC	BT-07-26	1585	1	2.2	n/a	63	72	0.011	n/a	6
1109	RBSC	BT-07-26	1586	2	3.1	n/a	68	80	0.024	n/a	1
1109	RBSC	BT-07-26	1587	2	3.5	n/a	72	82	0.035	n/a	1
1109	RBSC	BT-07-26	1588	2	2.5	n/a	64	73	0.029	n/a	1
1109	RBSC	BT-07-26	1589	1	1.7	n/a	57	66	0.007	n/a	1
1109	ARSS	BT-07-26	1590	1	2.4	n/a	53	62	0.012	n/a	6
1109	RBSC	BT-07-26	1591	2	6.7	n/a	84	96	0.877	n/a	2
1109	RBSC	BT-07-26	1592	1	1.9	n/a	59	68	0.007	n/a	6
1109	THSC	BT-07-26	1593	1	2.3	n/a	52	61	0.029	n/a	7
1109	RBSC	BT-07-26	1594	2	1.9	n/a	59	68	0.009	n/a	1
1109	SPSC	BT-07-26	1595	1	1.3	n/a	43	52	0.029	n/a	6
1109	RBSC	BT-07-26	1596	n/a	1.2	n/a	52	61	0.004	n/a	0
1109	RBSC	BT-07-26	1597	n/a	5.1	n/a	83	95	n/a	n/a	n/a
1109	THSC	BT-07-26	1598	2	1.7	n/a	49	57	0.012	n/a	1
1109	SPSC	BT-07-26	1599	1	0.9	n/a	38	45	0.005	n/a	6
1109	SPSC	BT-07-26	1600	n/a	0.8	n/a	37	44	n/a	n/a	0
1109	RBSC	BT-07-26	1601	1	1.8	n/a	60	69	0.008	n/a	6

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1109	RBSC	BT-07-26	1602	1	3.6	n/a	71	82	0.046	n/a	7
1109	SPSC	BT-07-26	1603	1	0.9	n/a	39	45	0.004	n/a	6
1109	RBSC	BT-07-26	1604	n/a	1.1	n/a	47	54	0.004	n/a	0
1109	THSC	BT-07-26	1605	n/a	0.8	n/a	37	44	n/a	n/a	0
1109	ARCD	BT-07-26	1606	2	2.4*	75	n/a	76	0.029	n/a	1
1109	ARCD	BT-07-26	1607	1	2.1	72	n/a	74	0.012	n/a	6
1109	PLEP	BT-07-26	1608	n/a	3.0	n/a	90	92	n/a	n/a	n/a
1109	PLEP	BT-07-26	1609	n/a	3.0	n/a	85	88	n/a	n/a	n/a
1109	TSEP	BT-07-26	1610	n/a	3.0	n/a	92	95	n/a	n/a	n/a
1109	PLEP	BT-07-26	1611	n/a	3.6	n/a	93	96	n/a	n/a	n/a
1109	PLEP	BT-07-26	1612	n/a	1.3	n/a	65	67	n/a	n/a	n/a
1109	PLEP	BT-07-26	1613	n/a	2.2	n/a	79	81	n/a	n/a	n/a
1109	PLEP	BT-07-26	1614	n/a	7.5	n/a	118	120	n/a	n/a	n/a
1109	PLEP	BT-07-26	1615	n/a	1.0	n/a	61	63	n/a	n/a	n/a
1109	PLEP	BT-07-26	1616	n/a	1.2	n/a	63	66	n/a	n/a	n/a
1109	PLEP	BT-07-26	1617	n/a	2.6	n/a	82	86	n/a	n/a	n/a
1109	PLEP	BT-07-26	1618	n/a	0.8	n/a	54	56	n/a	n/a	n/a
1109	PLEP	BT-07-26	1619	n/a	1.0	n/a	61	63	n/a	n/a	n/a
1109	PLEP	BT-07-26	1620	n/a	0.9	n/a	59	61	n/a	n/a	n/a
1109	PLEP	BT-07-26	1621	n/a	0.7	n/a	52	54	n/a	n/a	n/a
1109	PLEP	BT-07-26	1622	n/a	0.5	n/a	48	50	n/a	n/a	n/a
1109	PLEP	BT-07-26	1623	n/a	0.1	n/a	32	33	n/a	n/a	n/a
1109	Liparidae sp.	BT-07-26	1624	n/a	0.3	n/a	28	30	n/a	n/a	n/a
1111	GLSS	BT-07-28	1625	n/a	0.1	n/a	29	32	n/a	n/a	n/a
1111	ARAF	BT-07-28	1626	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1111	STEB	BT-07-28	1627	n/a	0.2	n/a	46	49	n/a	n/a	n/a
1112	ARCD	BT-07-29	1628	n/a	0.5	48	n/a	50	n/a	n/a	n/a
1111	RBSC	BT-07-28	1629	2	3.2	n/a	70	80	0.049	n/a	1
1111	RBSC	BT-07-28	1630	2	6.0	n/a	85	98	0.103	n/a	1
1111	RBSC	BT-07-28	1631	1	4.1	n/a	76	88	0.085	n/a	7
1111	ARAF	BT-07-28	1632	n/a	n/a	n/a	43	39	n/a	n/a	n/a
1112	GLSS	BT-07-29	1633	n/a	6.2	n/a	72	63	n/a	n/a	n/a
1110	RBSC	BT-07-27	1634	2	1.8	n/a	54	63	0.009	n/a	1
1110	RBSC	BT-07-27	1635	2	2.2	n/a	63	73	0.014	n/a	1
1110	RBSC	BT-07-27	1636	1	2.0	n/a	61	70	0.006	n/a	1
1110	ARSS	BT-07-27	1637	2	2.8	n/a	54	65	0.033	n/a	1
1110	RBSC	BT-07-27	1638	2	1.7	n/a	56	65	0.007	n/a	1
1110	RBSC	BT-07-27	1639	1	3.1	n/a	69	79	0.03	n/a	7
1110	RBSC	BT-07-27	1640	1	3.9	n/a	74	85	0.089	n/a	7
1110	RBSC	BT-07-27	1641	n/a	1.7	n/a	57	66	0.003	n/a	0
1110	RBSC	BT-07-27	1642	2	2.6	n/a	65	74	0.021	n/a	1
1110	PLEP	BT-07-27	1643	n/a	5.4	n/a	104	107	n/a	n/a	n/a
1110	PLEP	BT-07-27	1644	n/a	10.1	n/a	131	135	n/a	n/a	n/a
1110	PLEP	BT-07-27	1645	n/a	1.7	n/a	73	76	n/a	n/a	n/a
1110	PLEP	BT-07-27	1646	n/a	0.2	n/a	36	39	n/a	n/a	n/a
1110	ARCD	BT-07-27	1647	n/a	5.0	93	n/a	94	0.031	n/a	0

Appendix C. Continued...

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1110	ARCD	BT-07-27	1648	n/a	4.1	89	n/a	91	0.044	n/a	0
1110	ARCD	BT-07-27	1649	1	2.5	74	n/a	77	0.024	n/a	6
1110	ARCD	BT-07-27	1650	n/a	0.5	31	n/a	33	n/a	n/a	n/a
1110	GLSS	BT-07-27	1651	1	1.8	n/a	59	67	0.019	n/a	6
1110	GLSS	BT-07-27	1652	n/a	0.3	n/a	29	32	n/a	n/a	n/a
1110	STEB	BT-07-27	1653	n/a	0.6	n/a	55	62	n/a	n/a	n/a
1110	ARAF	BT-07-27	1654	n/a	n/a	n/a	43	49	n/a	n/a	n/a
1110	ARAF	BT-07-27	1655	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1110	ARAF	BT-07-27	1656	n/a	n/a	n/a	44	50	n/a	n/a	n/a
1110	ARAF	BT-07-27	1657	n/a	n/a	n/a	42	49	n/a	n/a	n/a
1110	ARAF	BT-07-27	1658	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1110	ARAF	BT-07-27	1659	n/a	n/a	n/a	41	48	n/a	n/a	n/a
1110	ARAF	BT-07-27	1660	n/a	n/a	n/a	37	43	n/a	n/a	n/a
1110	ARAF	BT-07-27	1661	n/a	n/a	n/a	38	44	n/a	n/a	n/a
1110	ARAF	BT-07-27	1662	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1110	ARAF	BT-07-27	1663	n/a	n/a	n/a	41	47	n/a	n/a	n/a
1110	ARAF	BT-07-27	1664	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1110	ARAF	BT-07-27	1665	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1110	ARAF	BT-07-27	1666	n/a	n/a	n/a	38	44	n/a	n/a	n/a
1110	ARAF	BT-07-27	1667	n/a	n/a	n/a	35	43	n/a	n/a	n/a
1110	ARAF	BT-07-27	1668	n/a	n/a	n/a	45	50	n/a	n/a	n/a
1110	ARAF	BT-07-27	1669	n/a	n/a	n/a	42	49	n/a	n/a	n/a
1110	ARAF	BT-07-27	1670	n/a	n/a	n/a	39	46	n/a	n/a	n/a
1110	ARAF	BT-07-27	1671	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1110	ARAF	BT-07-27	1672	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1110	ARAF	BT-07-27	1673	n/a	n/a	n/a	38	45	n/a	n/a	n/a
1110	ARAF	BT-07-27	1674	n/a	n/a	n/a	37	43	n/a	n/a	n/a
1110	ARAF	BT-07-27	1675	n/a	n/a	n/a	37	42	n/a	n/a	n/a
1110	ARAF	BT-07-27	1676	n/a	n/a	n/a	36	42	n/a	n/a	n/a
1110	ARAF	BT-07-27	1677	n/a	n/a	n/a	41	49	n/a	n/a	n/a
1110	ARAF	BT-07-27	1678	n/a	n/a	n/a	42	49	n/a	n/a	n/a
1110	ARAF	BT-07-27	1679	n/a	n/a	n/a	40	46	n/a	n/a	n/a
1110	ARAF	BT-07-27	1680	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1110	ARAF	BT-07-27	1681	n/a	n/a	n/a	41	48	n/a	n/a	n/a
1110	ARAF	BT-07-27	1682	n/a	n/a	n/a	39	45	n/a	n/a	n/a
1110	ARAF	BT-07-27	1683	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1110	ARAF	BT-07-27	1684	n/a	n/a	n/a	41	47	n/a	n/a	n/a
1110	ARAF	BT-07-27	1685	n/a	n/a	n/a	43	50	n/a	n/a	n/a
1110	ARAF	BT-07-27	1686	n/a	n/a	n/a	55	63	n/a	n/a	n/a
1110	ARAF	BT-07-27	1687	n/a	n/a	n/a	43	49	n/a	n/a	n/a
1110	ARAF	BT-07-27	1688	n/a	n/a	n/a	54	61	n/a	n/a	n/a
1110	ARAF	BT-07-27	1689	n/a	n/a	n/a	42	48	n/a	n/a	n/a
1110	ARAF	BT-07-27	1690	n/a	n/a	n/a	41	47	n/a	n/a	n/a
1110	ARAF	BT-07-27	1691	n/a	n/a	n/a	45	51	n/a	n/a	n/a
1110	ARAF	BT-07-27	1692	n/a	n/a	n/a	45	52	n/a	n/a	n/a
1110	GLSS	BT-07-27	1693	1	6.5	n/a	75	85	0.107	n/a	7

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1110	GLSS	BT-07-27	1694	1	4.6	n/a	69	76	0.01	n/a	6
1110	SPSC	BT-07-27	1695	1	0.7	n/a	33	42	n/a	n/a	0
1110	RBSC	BT-07-27	1696	1	3.7	n/a	70	82	0.114	n/a	7
1110	RBSC	BT-07-27	1697	n/a	1.7	n/a	53	62	0.004	n/a	0
1110	RBSC	BT-07-27	1698	2	3.2	n/a	66	76	0.03	n/a	1
1110	RBSC	BT-07-27	1699	2	3.2	n/a	65	74	0.031	n/a	1
1110	RBSC	BT-07-27	1700	2	3.3	n/a	66	78	0.037	n/a	1
1110	RBSC	BT-07-27	1701	2	1.6	n/a	55	63	0.006	n/a	1
1110	RBSC	BT-07-27	1702	2	3.1	n/a	64	74	0.025	n/a	1
1110	SPSC	BT-07-27	1703	2	2.7	n/a	58	68	0.051	n/a	1
1110	RBSC	BT-07-27	1704	1	1.7	n/a	56	63	0.007	n/a	6
1110	RBSC	BT-07-27	1705	1	4.4	n/a	69	80	0.108	n/a	7
1110	SPSC	BT-07-27	1706	1	1.3	n/a	45	54	0.028	n/a	6
1110	RBSC	BT-07-27	1707	2	7.9	n/a	86	100	1.505	n/a	2
1110	RBSC	BT-07-27	1708	2	1.8	n/a	57	65	0.007	n/a	1
1110	RBSC	BT-07-27	1709	1	5.4	n/a	84	47	0.279	n/a	7
1110	SPSC	BT-07-27	1710	2	6.3	n/a	64	75	n/a	n/a	n/a
1110	RBSC	BT-07-27	1711	1	2.1	n/a	59	67	0.004	n/a	6
1110	RBSC	BT-07-27	1712	2	3.2	n/a	69	79	0.033	n/a	1
1110	RBSC	BT-07-27	1713	1	2.1	n/a	60	70	0.01	n/a	6
1110	RBSC	BT-07-27	1714	1	5.4	n/a	80	93	0.226	n/a	7
1110	PLEP	BT-07-27	1715	n/a	17.2	n/a	155	159	n/a	n/a	n/a
1110	PLEP	BT-07-27	1716	n/a	52.6	n/a	210	220	n/a	n/a	n/a
1110	TSEP	BT-07-27	1717	n/a	10.1	n/a	130	132	n/a	n/a	n/a
1110	Lycodes sp	BT-07-27	1718	n/a	n/a	n/a	35	37	n/a	n/a	n/a
1110	PLEP	BT-07-27	1719	n/a	0.1	n/a	36	38	n/a	n/a	n/a
1110	PLEP	BT-07-27	1720	n/a	0.2	n/a	40	42	n/a	n/a	n/a
1110	STEB	BT-07-27	1721	n/a	0.7	n/a	54	61	n/a	n/a	0
1110	ARCD	BT-07-27	1722	n/a	5.0	92	n/a	94	0.046	n/a	0
1110	ARCD	BT-07-27	1723	1	2.9	81	n/a	83	0.036	n/a	6
1113	FSDR	BT-07-30	1724	n/a	2.5	n/a	94	97	n/a	n/a	n/a
1113	FSDR	BT-07-30	1725	n/a	0.2	n/a	47	48	n/a	n/a	n/a
1113	FSDR	BT-07-30	1726	n/a	1.6	n/a	76	79	n/a	n/a	n/a
1113	HBPT	BT-07-30	1727	n/a	1.3	n/a	75	77	n/a	n/a	n/a
1113	HBPT	BT-07-30	1728	n/a	3.3	n/a	98	102	n/a	n/a	n/a
1113	HBPT	BT-07-30	1729	n/a	0.3	n/a	49	50	n/a	n/a	n/a
1113	HBPT	BT-07-30	1730	n/a	1.0	n/a	67	70	n/a	n/a	n/a
1113	Stichaeidae sp	BT-07-30	1731	n/a	0.1	n/a	45	50	n/a	n/a	n/a
1113	SPSC	BT-07-30	1732	2	1.9	n/a	53	61	0.019	n/a	1
1113	SPSC	BT-07-30	1733	2	0.7	n/a	38	45	0.007	n/a	1
1113	HBPT	BT-07-31	1734	n/a	n/a	n/a	87	90	n/a	n/a	n/a
1113	HBPT	BT-07-31	1735	n/a	3.3	n/a	102	105	n/a	n/a	n/a
1113	AREP	BT-07-31	1736	n/a	9.7	n/a	145	150	n/a	n/a	n/a
1113	HBPT	BT-07-31	1737	n/a	0.3	n/a	48	49	n/a	n/a	n/a
1113	HBPT	BT-07-31	1738	n/a	0.6	n/a	58	60	n/a	n/a	n/a
1113	HBPT	BT-07-31	1739	n/a	0.3	n/a	48	49	n/a	n/a	n/a

Appendix C. Continued...

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1113	SPSC	BT-07-31	1740	1	1.4	n/a	46	54	0.035	n/a	7
1113	SPSC	BT-07-31	1741	1	1.1	n/a	41	48	0.008	n/a	7
1113	SPSC	BT-07-31	1742	2	1.0	n/a	42	49	0.006	n/a	1
1113	GLSS	BT-07-31	1743	n/a	16.1	n/a	92	86	n/a	n/a	n/a
1113	FSDR	BT-07-32	1744	n/a	1.5	n/a	80	77	n/a	n/a	n/a
1113	FSDR	BT-07-32	1745	n/a	3.0	n/a	102	99	n/a	n/a	n/a
1113	HBPT	BT-07-32	1746	n/a	2.2	n/a	88	86	n/a	n/a	n/a
1113	SPSC	BT-07-32	1747	1	1.7	n/a	50	57	0.027	n/a	7
1113	Icelus sp	BT-07-32	1748	n/a	0.1	n/a	24	26	n/a	n/a	0
1113	Liparidae sp.	BT-07-32	1749	n/a	0.3	n/a	14	15	n/a	n/a	n/a
1113	Stichaeidae sp	BT-07-32	1750	n/a	0.2	n/a	41	45	n/a	n/a	n/a
1113	Stichaeidae sp.	BT-07-32	1751	n/a	0.1	n/a	44	49	n/a	n/a	n/a
1114	ARCD	BT-07-33	1752	n/a	0.2	32	n/a	34	n/a	n/a	n/a
1113	ARCD	BT-07-32	1753	n/a	2.6	82	n/a	85	n/a	n/a	n/a
1113	ARCD	BT-07-32	1754	n/a	0.1	32	n/a	33	n/a	n/a	n/a
1113	FSDR	BT-07-32	1755	n/a	4.0	n/a	112	114	n/a	n/a	n/a
1113	ARCD	BT-07-32	1756	n/a	0.3	36	n/a	39	n/a	n/a	n/a
1113	ARCD	BT-07-32	1757	n/a	0.1	33	n/a	34	n/a	n/a	n/a
1113	ARCD*	BT-07-32	1758	n/a	0.2	29	n/a	30	n/a	n/a	n/a
1113	ARCD	BT-07-32	1759	n/a	0.2	30	n/a	32	n/a	n/a	n/a
1113	GLSS	BT-07-32	1760	n/a	0.2	n/a	27	29	n/a	n/a	n/a
1113	GLSS	BT-07-32	1761	n/a	0.3	n/a	32	36	n/a	n/a	n/a
1115	Icelus sp	BT-07-36	1762	n/a	0.6	n/a	35	42	n/a	n/a	0
1115	Icelus sp	BT-07-36	1763	n/a	0.5	n/a	55	43	n/a	n/a	0
1115	Icelus sp	BT-07-36	1764	n/a	0.1	n/a	25	27	n/a	n/a	0
1115	ARCD	BT-07-36	1765	n/a	0.2	35	n/a	37	n/a	n/a	n/a
1115	GLSS	BT-07-36	1766	1	1.5	n/a	55	64	0.016	n/a	6
1115	Liparidae sp.	BT-07-36	1767	n/a	0.4	n/a	15	21	n/a	n/a	n/a
1115	THSC	BT-07-36	1768	1	1.6	n/a	45	54	0.014	n/a	1
1115	THSC	BT-07-36	1769	2	0.7	n/a	39	46	0.003	n/a	1
1115	ARAF	BT-07-36	1770	n/a	n/a	n/a	24	27	n/a	n/a	n/a
1115	ARCD	BT-07-37	1771	n/a	0.4	42	n/a	44	n/a	n/a	n/a
1115	GLSS	BT-07-37	1772	n/a	0.5	n/a	35	39	n/a	n/a	n/a
1115	GLSS	BT-07-38	1773	n/a	0.2	n/a	27	31	n/a	n/a	n/a
1116	ARCD	BT-07-41	1774	1	4.8*	96	n/a	98	0.067	n/a	6
1116	ARCD	BT-07-41	1775	1	2.6*	79	n/a	81	0.042	n/a	6
1116	ARCD	BT-07-41	1776	1	1.5*	67	n/a	70	0.018	n/a	6
1116	ARCD	BT-07-41	1777	n/a	3.5*	90	n/a	91	n/a	n/a	n/a
1116	ARCD	BT-07-40	1778	n/a	3.1*	84	n/a	87	n/a	n/a	n/a
1116	GLSS	BT-07-41	1779	2	5.2	n/a	72	82	0.088	n/a	1
1116	GLSS	BT-07-40	1780	2	11.9	n/a	85	97	1.561	n/a	3
1116	GLSS	BT-07-40	1781	1	15.9	n/a	98	110	0.216	n/a	7
1116	SPSC	BT-07-40	1782	2	5.7	n/a	64	76	0.394	n/a	2
1116	SPSC	BT-07-39	1783	1	1.0	n/a	37	47	0.008	n/a	6
1116	Lycodes sp	BT-07-40	1784	n/a	0.1	n/a	34	35	n/a	n/a	n/a
1116	HBPT	BT-07-40	1785	n/a	3.9	n/a	102	107	n/a	n/a	n/a

Appendix C. Continued…

Station ID	Species Code	Gear Deploy. ID	Fish ID (N-07-X)[a]	Sex 1=M 2=F	Wt (g)	FL (mm)	SL (mm)	TL (mm)	Gonad Wt (g)	GSI[b]	MQC[c]
1116	SPSC	BT-07-40	1786	1	0.9	n/a	41	49	0.006	n/a	6
1116	THSC	BT-07-40	1787	n/a	0.7	n/a	37	44	0.003	n/a	0
1116	Icelus sp	BT-07-40	1788	n/a	0.1	n/a	21	23	n/a	n/a	n/a
1116	GLSS	BT-07-40	1789	n/a	0.1	n/a	21	23	n/a	n/a	n/a
1116	GLSS	BT-07-40	1790	n/a	0.2	n/a	28	31	n/a	n/a	n/a
1116	ARCD	BT-07-40	1791	n/a	0.4	n/a	43	44	n/a	n/a	n/a
1116	SPSC	BT-07-39	1792	2	0.7	n/a	37	44	0.004	n/a	1
1116	Icelus sp	BT-07-39	1793	n/a	0.5	n/a	32	37	n/a	n/a	0
1116	Icelus sp	BT-07-39	1794	n/a	0.1	n/a	21	24	n/a	n/a	n/a
1116	Icelus sp	BT-07-39	1795	n/a	0.1	n/a	24	27	n/a	n/a	n/a
1116	Icelus sp	BT-07-39	1796	n/a	0.1	n/a	23	25	n/a	n/a	n/a
1116	Icelus sp	BT-07-39	1797	n/a	0.2	n/a	24	28	n/a	n/a	n/a
1116	FSDR	BT-07-39	1798	n/a	0.5	n/a	49	52	n/a	n/a	n/a
1116	HBPT	BT-07-39	1799	n/a	4.5	n/a	111	114	n/a	n/a	n/a
1116	ARAF	BT-07-39	1800	n/a	n/a	n/a	37	44	n/a	n/a	n/a
1116	ARAF	BT-07-39	1801	n/a	n/a	n/a	27	31	n/a	n/a	n/a
1116	Liparidae sp.	BT-07-39	1802	n/a	0.0	n/a	14	16	n/a	n/a	n/a
1116	GLSS	BT-07-39	1803	n/a	0.1	n/a	19	21	n/a	n/a	n/a
1116	ARCD	BT-07-39	1804	n/a	0.3	36	n/a	38	n/a	n/a	n/a
1116	ARCD	BT-07-39	1805	n/a	0.4	45	n/a	46	n/a	n/a	n/a
1116	Icelus sp	BT-07-41	1806	n/a	0.2	n/a	27	32	n/a	n/a	0
1116	SPSC	BT-07-41	1807	2	0.8	n/a	39	47	0.003	n/a	1
1116	THSC	BT-07-41	1808	2	0.7	n/a	37	42	0.003	n/a	1
1116	SPSC	BT-07-41	1809	2	1.5	n/a	44	54	0.012	n/a	1
1116	GLSS	BT-07-41	1810	n/a	1.6	n/a	57	64	0.005	n/a	0
1116	GLSS	BT-07-41	1811	n/a	0.2	n/a	32	36	n/a	n/a	n/a
1116	HBPT	BT-07-41	1812	n/a	1.3	n/a	77	80	n/a	n/a	n/a
1116	HBPT	BT-07-41	1813	n/a	1.5	n/a	77	80	n/a	n/a	n/a
1117	ARCS	GN-07-01	1814	1	677.0	356	n/a	390	1.808	n/a	6
1117	ARCS	GN-07-01	1815	n/a	n/a	356	n/a	390	n/a	n/a	n/a
1117	ARCS	GN-07-01	1816	n/a	n/a	356	n/a	390	n/a	n/a	n/a
1117	ARCS	GN-07-01	1817	n/a	n/a	356	n/a	390	n/a	n/a	n/a
1117	ARCS	GN-07-01	1818	n/a	n/a	356	n/a	390	n/a	n/a	n/a
1117	ARCS	GN-07-01	1819	n/a	n/a	356	n/a	395	n/a	n/a	n/a
1117	ARCS	GN-07-01	1820	n/a	n/a	356	n/a	430	n/a	n/a	n/a
1117	LSCS	GN-07-01	1821	2	22.7	138	n/a	149	0.108	n/a	1
1117	LSCS	GN-07-01	1822	n/a	21.0	134	n/a	146	n/a	n/a	n/a
1117	LSCS	GN-07-01	1823	2	22.3	135	n/a	142	0.02	n/a	1
1117	LSCS	GN-07-01	1824	2	23.2	138	n/a	150	0.278	n/a	1
1117	FHSC	GN-07-01	1825	1	21.9	n/a	117	139	1.711	n/a	7

[a]Fish ID: N = Nahidik, 07 = 2007, X = Individual ID number; [b]GSI = Gonadal Somatic Index; [c]MQC = Maturity Quality Code.

Appendix D. Depth, temperature, and salinity data recorded during trawl deployments using a mini-CTD (Conductivity, Temperature, Depth) logger.

Station ID	Trawl ID	Depth (m)			Temperature (°C)			Salinity (PSU)		
		Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
1086	BT-07-01	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1086	BT-07-02	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1086	BT-07-03	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1087	BT-07-04	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1088	BT-07-05	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1089	BT-07-06	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1090	BT-07-07	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1091	BT-07-08	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1092	BT-07-09	4.59	11.04	7.10	-1.372	4.097	-0.946	25.8	31.3	29.98
1093	BT-07-10	10.32	13.39	12.59	-1.372	-0.013	-1.311	29.0	30.3	30.16
1094	BT-07-11	12.28	14.45	13.95	-1.414	-0.460	-1.336	29.7	31.4	30.68
1095	BT-07-12	11.38	14.53	13.99	-1.455	-0.134	-1.387	28.8	31.3	29.90
1096	BT-07-13	8.05	12.46	10.58	-1.330	0.269	-1.227	29.7	31.4	30.92
1097	BT-07-14	3.37	7.80	7.13	-1.288	11.134	-0.817	20.9	29.3	28.93
1098	BT-07-15	5.25	9.21	8.51	-1.121	9.549	-0.850	23.7	30.1	29.76
1099	BT-07-16	5.23	9.88	9.25	-1.288	5.713	-0.941	25.2	31.1	29.68
1100	BT-07-17	5.31	10.24	9.79	-1.330	4.930	-0.995	25.7	30.3	29.97
1101	BT-07-18	5.38	10.18	8.59	-1.330	2.457	-1.116	27.2	31.0	30.22
1102	BT-07-19	11.81	16.36	14.84	-1.455	-0.42	-1.348	29.3	30.1	29.82
1103	BT-07-20	38.25	65.80	58.59	-1.624	-1.372	-1.605	29.4	32.2	30.05
1104	BT-07-21	21.64	46.49	30.17	-1.624	-0.996	-1.540	29.1	31.4	29.86
1105	BT-07-22	30.84	49.91	42.19	-1.624	-1.288	-1.604	30.1	31.3	30.60
1106	BT-07-23	26.02	47.98	32.05	-1.624	-1.204	-1.560	29.5	30.2	29.85
1107	BT-07-24	6.53	11.81	9.31	-1.330	2.036	-1.038	26.5	29.7	29.06
1108	BT-07-25	49.03	79.64	56.24	-1.666	-0.789	-0.989	28.7	29.9	29.08
1109	BT-07-26	48.86	57.51	51.91	-0.996	-0.789	-0.972	28.4	31.4	29.41
1110	BT-07-27	41.77	49.31	47.92	-1.038	-0.831	-0.993	28.3	30.1	29.51
1111	BT-07-28	29.84	50.74	42.03	-1.121	-0.872	-1.078	23.6	30.0	29.66
1112	BT-07-29	33.12	50.47	42.43	-1.246	-0.789	-1.086	28.5	30.0	29.41
1113	BT-07-30	31.6	38.98	36.03	-1.372	-0.831	-1.330	29.6	30.6	30.40
1113	BT-07-31	32.89	37.26	35.66	-1.372	-0.707	-1.285	29.5	30.7	30.37
1113	BT-07-32	33.88	38.71	36.58	-1.372	-0.789	-1.334	29.5	30.6	30.32
1114	BT-07-33	46.12	58.14	52.75	-1.372	-1.079	-1.356	31.3	31.9	31.69
1114	BT-07-34	31.89	57.81	49.20	-1.372	-1.246	-1.364	31.1	31.7	31.65
1114	BT-07-35	40.83	50.91	44.62	-1.372	-1.204	-1.363	31.5	31.8	31.70
1115	BT-07-36	50.53	57.50	55.64	-1.288	-1.163	-1.278	31.8	32.0	31.90
1115	BT-07-37	26.61	53.74	40.79	-1.372	-0.707	-1.278	31.1	32.1	31.76
1115	BT-07-38	44.35	54.13	49.09	-1.288	-1.121	-1.271	31.7	32.0	31.90
1116	BT-07-39	28.26	36.01	34.33	-1.038	-0.789	-1.028	31.5	31.9	31.79
1116	BT-07-40	32.50	35.50	34.30	-1.038	-0.707	-1.015	31.6	31.9	31.82
1116	BT-07-41	32.63	35.50	33.88	-1.079	-0.789	-1.020	31.6	31.9	31.79
1117	GN-07-01	0	0.46	0.28	-0.789	0.589	-0.240	30.9	32.4	31.21
1117	GN-0702	0	0.73	0.26	-0.094	1.182	0.228	30.6	32.7	31.27